Information Technology

Part A: Institutional Information

1 Name and Address of the Institution

NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, 16-4-1/A NE W MALAKPET, HY DERABA D PIN: 500024. TELANGA NA STATE INDIA.

2 Name and Address of Affiliating University

OS MANIA 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 Govern ment		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	2020-21		2019-20		2018-19	
	MIN	MAX	MIN	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	2021-22	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	2021-22	2020-2021	2019-20	2018-19	2017-18
Total no. of Boys	64	79	85	97	93
Total no. of Girls	24	32	34	26	20
Total	**88**	**111**	**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 PRINCIPAL 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, NBACOORDINATOR
Mobile No.	9866879942
Email ID	ms_qaseem@yahoo.com

PART B: Criteria Summary

Critera 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

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 60.00

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

Total Marks5.00

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 soundethics. **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 theirchosen fields. **M4:** To strive and contribute to the needs of the society and the nation by applying advanced engineering and technicalconcepts.
Vision of the Department	To produce quality IT professionals, with an ability to adapt to ever changing IT needs of local, national and international arena,through effective teaching & learning, interactions with alumni and industry.

Mission No.	Mission Statements
M1	To provide a holistic learning environment for students through ethical practices.
M2	To provide quality infrastructure through practical exposure to the latest technology requirements.
M3	To train the students in soft skills to excel in placements and competitive exams at higher level the industry ready.
M4	To have a healthy Industry - Institute interaction through faculty development programs, student internships, guestlectures and using latest teaching learning methodologies.
M5	To provide effective platform to meet the industrial requirement and provide research oriented environment for thefaculty to meet the continuous societal needs.

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 would have the ability to establish themselves as practicing professional in information technology or related field
PEO2	Graduates will apply their programming skills with team spirit to address ever-changing industrial requirements globally
PEO3	Graduates will have the ability to engage in live long learning for effective adaption to technological development

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

BoardsDepartment 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

ParentsParent 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

ParentTeacher Meeting –

Parents

The Internal Stakeholders of the program are:

Students

Management BOG

membersFaculty

Support staff

The External Stakeholders of the program are:

Alumni

Employe

r s

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 insuccessive 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 thedepartment.

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

Total Marks25.00

Institute Marks :25.00

Description of process involve in defining the Vision 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

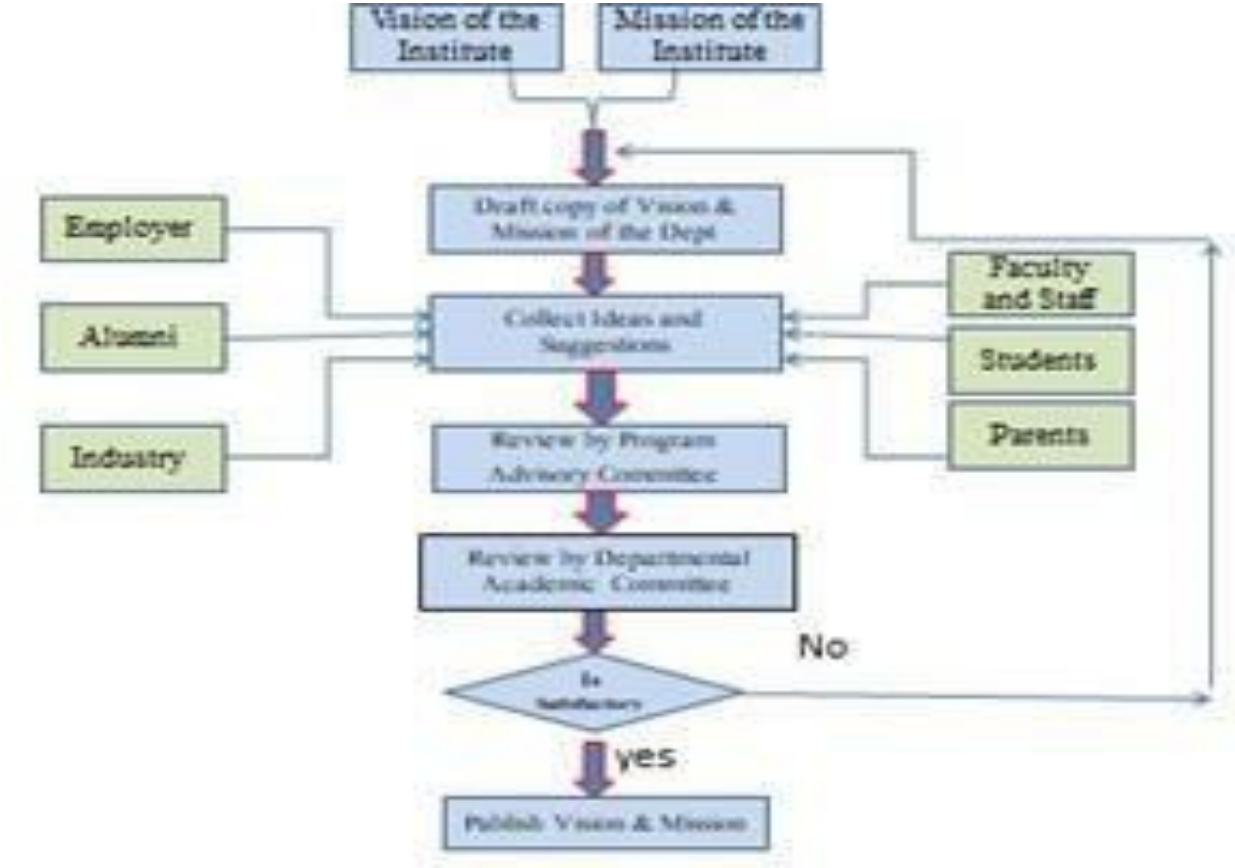


Figure 1.4.1 Process defining Department Vision and Mission

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 ParentsThe 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 ofvarious 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.

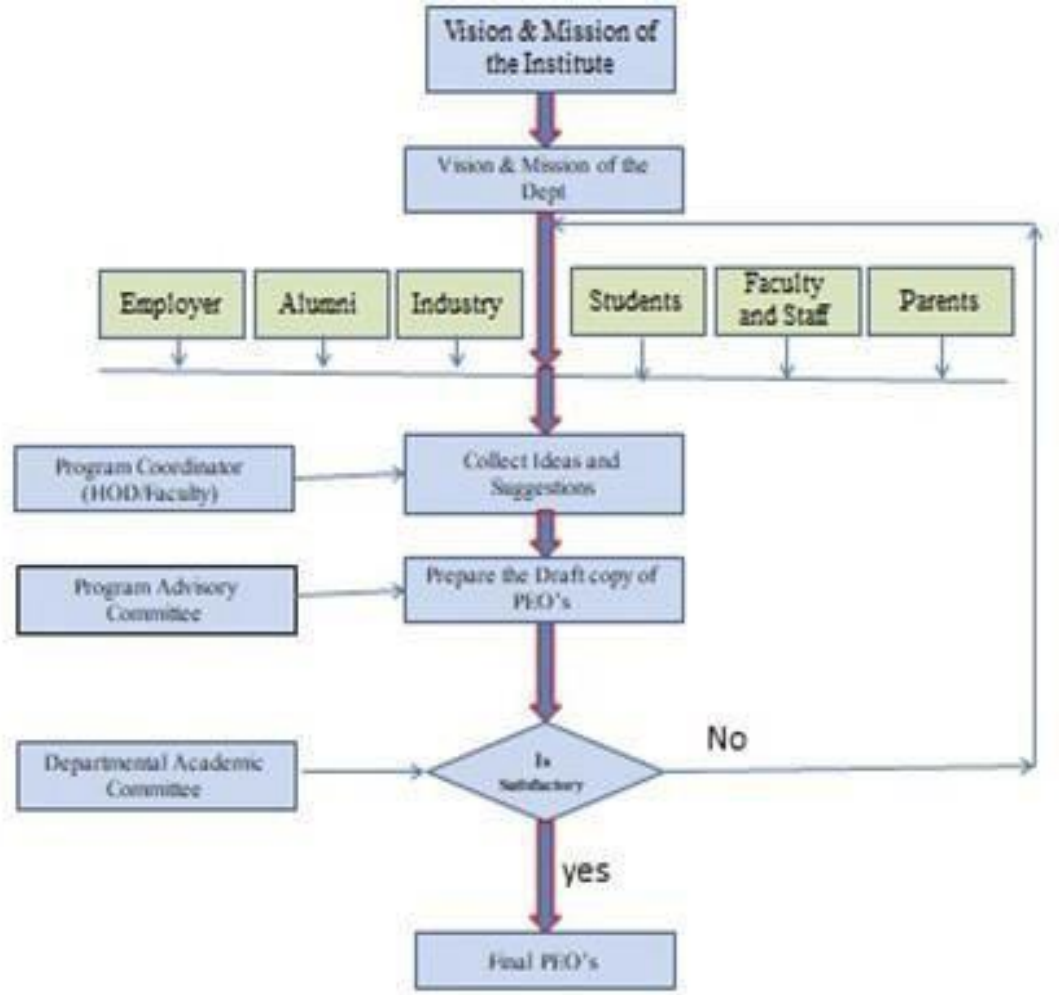


Figure 1.4.2. Process for defining the PEOs of the Department

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 provide a holistic learning environment for students through ethical practices.

M2: To provide quality infrastructure through practical exposure to the latest technology requirements.

M3: To train the students in soft skills to excel in placements and competitive exams at higher level the industry ready.

M4: To have a healthy Industry - Institute interaction through faculty development programs, student internships, guest lectures and using latest teaching learning methodologies.

M5: To provide effective platform to meet the industrial requirement and provide research oriented environment for the faculty to meet the continuous societal needs.

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.

PEO's /Mission	PEO Statements	M1	M2	M3	M4	M5
PEO-1	GRADUATES WOULD HAVE THE ABILITY TO ESTABLISH THEMSELVES AS PRACTICING PROFESSIONALLY IN INFORMATION TECHNOLOGY OR RELATED FIELD	3	3	2	3	3
PEO-2	GRADUATES WILL APPLY THEIR **PROGRAMMING** SKILLS WITH TEAM SPIRIT TO ADDRESS EVER-CHANGING INDUSTRIAL REQUIREMENTS GLOBALLY	3	3	2	3	2
PEO-3	GRADUATES WILL HAVE THE ABILITY TO ENGAGE IN LIFELONG LEARNING FOR EFFECTIVE ADAPTATION TO TECHNOLOGICAL DEVELOPMENTS	3	2	2	3	3

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 AnnexureI. 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 JNTU Hyderabad till last year. Osmania University Hyderabad current Academic Year 2019-2020 and curriculum is designed by affiliated university.The university curriculum 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 and program specific outcomes.In this view, the Departmental Academic Committee (DAC) is made.

The Departmental Academic Committee undertakes a study / investigation to determine whether the syllabi and its contents provides the opportunity to 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 Academic 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 3 Academic Years (2018-19, 2017-18, 2016-17) of each subject have been calculated carefully and presented in criterion 3.
Based on the Program Outcome attainment values the curricular gaps are identified.

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

List of Program Outcomes

PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	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.
PO3	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.
PO4	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.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complexengineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequentresponsibilities relevant to the professional engineering practice.
PO7	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.
PO8	Ethics: Apply ethical principles and commit to professional ethics andresponsibilities
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able tocomprehend and write effective reports and design documentation, make effective presentations,and give and receive clear instructions.
PO11	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
PO12	Life-long learning: Recognize the need for, and have the preparation and ability toengage in independent and life-long learning in the broadest context of technological

List of Program Specific Outcome

PSO1: Develop efficient information management systems using latest development tools catering to the globally changing requirements in multi-disciplinary domains

PSO2: Manage real time IT projects with consideration of human, financial, ethical and environmental factors and an understanding of policy implications.

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 Academic Committee on a regular basis for fulfillment of the PO/PSOs, Course Outcome s. 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.

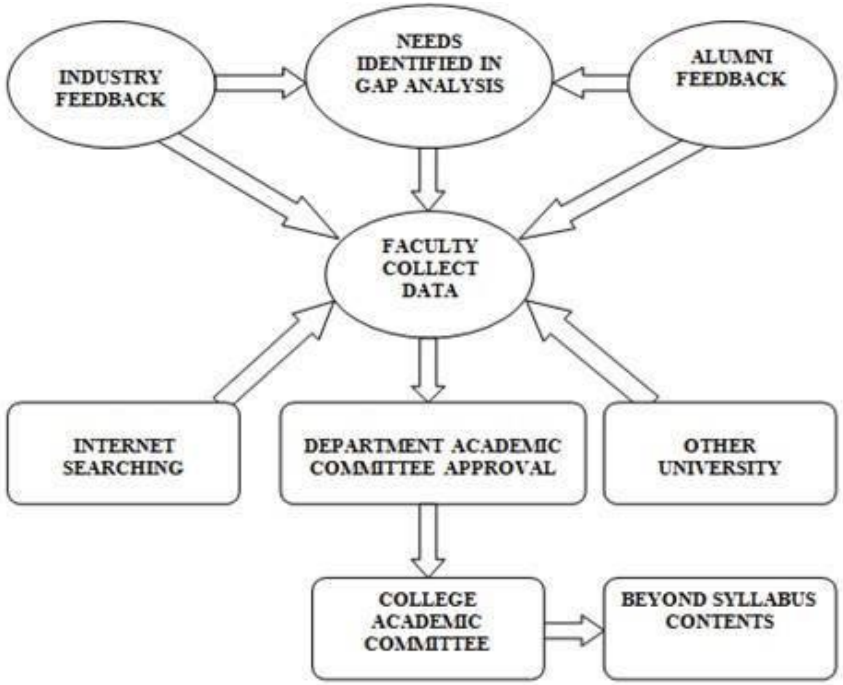


Fig 2.1.1 Process used to identify the curricular Gaps

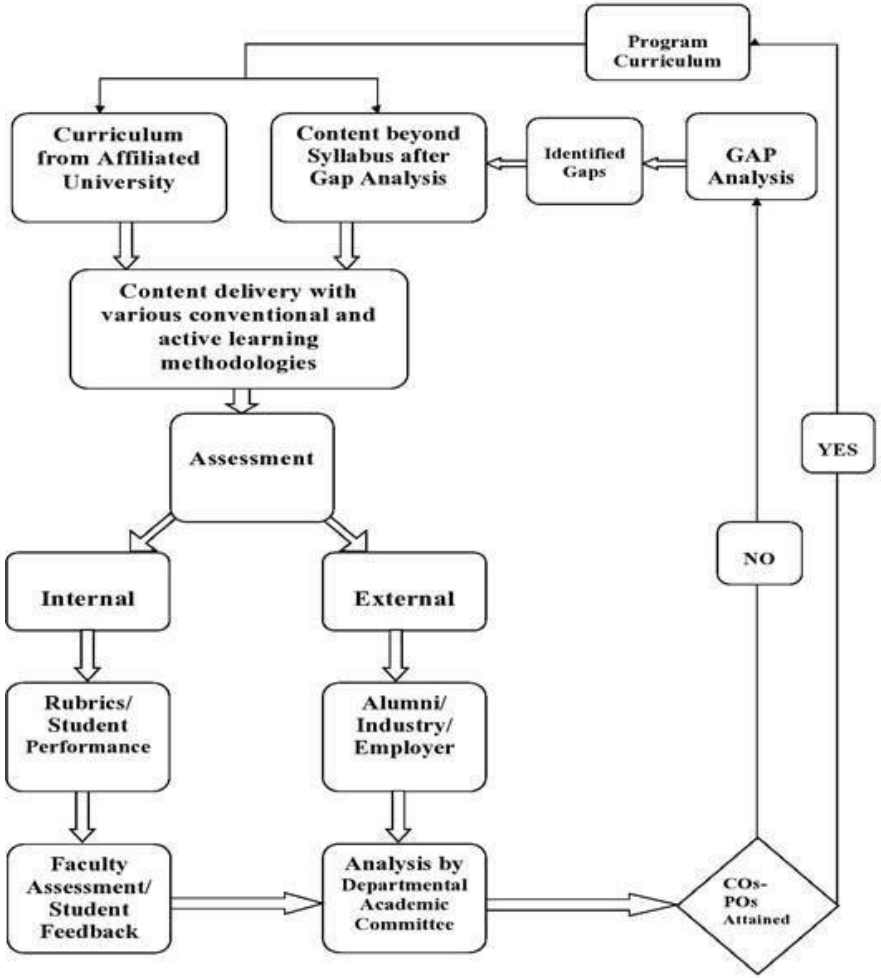


Fig 2.1.2 Process of assessment of Gap Analysis.

GAPS identified:

List of Curricular Gaps CAY (2020-2021)

S.NO	Course Name	Gap(title of theTopic)
1	5G & 6G ServiceNetwork Outlook	5G & 6G Service
2	BREAKTHROUGH To EXCELLENCE in webservices	Web Services
3	Webinar On Personal Branding	Webinar On Personal Branding

List of Curricular Gaps CAYm1 (2019-2020)

S.NO	Course Name	Gap(title of theTopic)
1.	INDUSTRIAL VISIT TO 'INFOSYS'	Industry Requirements
2	Data analytics in cloudenvironment	Data analytics in cloudenvironment
3	Data Science-usingMachine Learning & Python	Data Science-usingMachine Learning & Python

List of Curricular Gaps CAYm2 (2018-2019)

S.NO	CourseName	Gap(title of theTopic)
1.	Linux, Pythonand Free Software	Linux, Pythonand Free Software
2	Database Management Systems	Database Management Systems
3	Working Models	Techno Vision

List of Curricular Gaps CAYm3 (2016-2017)

S.NO	COURSE NAME	Gap(title of the Topic)
1	Advanced DataStructures & Computer	Advanced DataStructures & Computer Networking
2	Linux Programming Skills	Linux Programming Skills

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

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	5G & 6G Service Network Outlook	Guest lecture webinar	24 Aug 2020	Mr. Marc Einstein	70%	,PO1,PO2,PO3,PO4,PO5,PO6,PO7PO11&PO12
2	An IoT Forecast That is Sunny & Clear	webinar	06 July 2020	Ms.KATHY GIORI	85%	PO1,PO2,PO3,PO4,PO5,PO6,PO7PO11&PO12PO3,PO4, PO5,PO11&PO12
3	Insights on Block Chain & Career Opportunities.	webinar	01 Jan 2020	Mr.ARAVAIN DVORUNGATI	80%	PO1,PO2,PO3,&PO12

2019-20

S.NO	Gap	Action Taken	Date-Month-Year	Resource Person with Design action	% of students	Relevance to POs,PSOs
1	Data Analytics in cloud Environment	Guest Lecture	18/09/2019	Prof P V Sudha,HOD,CSEDean ,OU	80	PO1,PO2,PO3,PO4,PO5,PO6PO8,PO10&PO11
2	Data Science Using Machine Learning& PYTHON	workshop	6/08/2019	Mr.PavanKumar,MrMohanKu mar,IIITH	85	PO1,PO2,PO3,PO4,PO5,PO6,PO11&PO12

2018-19

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Industry Requirements	INDUSTRIAL VISIT TO 'INFOSYS'	31/08/19	Shailash Mr.Kumar,Technology Analyst	85	PO 3,PO 4, PO 5, PO 11 & PO 12
2	Data analytics in cloud environment	Guest Lecture	18/09/19	Prof. P.V. Sudha, HOD,CSED,OU	85	PO8,PO10&PO11
3	Data Science-using Machine Learning & Python	1 day Workshop	06/08/2019	Mr. Pavan Kumar,Mr. Mohan Kumar(IIITH)	90	PO5,PO6,PO11&

2017-18

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Linux, Python and Free Software	2 Days Workshop	27/07/18	Dr. C. Krishna Mohan, IIITH,Dr. L.Pratap Reddy, JNTUH	80	PO2,PO3,PO4,PO6
2	Database Management Systems	Guest Lecture	22/02/2018	Dr. G. Venkat Rami Reddy, Prof., JNTUH	85	PO6,PO7,PO8,PO11& PO12
3	Working Models	Techno Vision	28/02/2018	L.Pratap Reddy, JNTUH	90	PO2,PO4,PO6&PO7

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Advanced Data Structures & Computer Networking	Guest Lecture	18/09/17	Dr. G. Narsimha, Professor, JNTUH	80	PO1,PO2,PO3,PO12
2	Linux Programming Skills	CISCO-LP	22/05/17	Mr. Mohd Ayaz Uddin,Instructor CISCO LP	85	PO1,PO2,PO3,PO11 & PO12

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**

A. Adhare to academic calendar

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 / B.Tech are under Osmania University and 3rd& 4th year BE / B.Tech are under JNTUH. Hence the University academic calendars have been provided by the JNTUH, Hyderabad and the Osmania University every year. For every academic year the concerned Universitycirculatestheacademiccalendarsforbothoddandevensemestersbeforethecommencementoftheclasswork.Thesampleofthecalendar(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

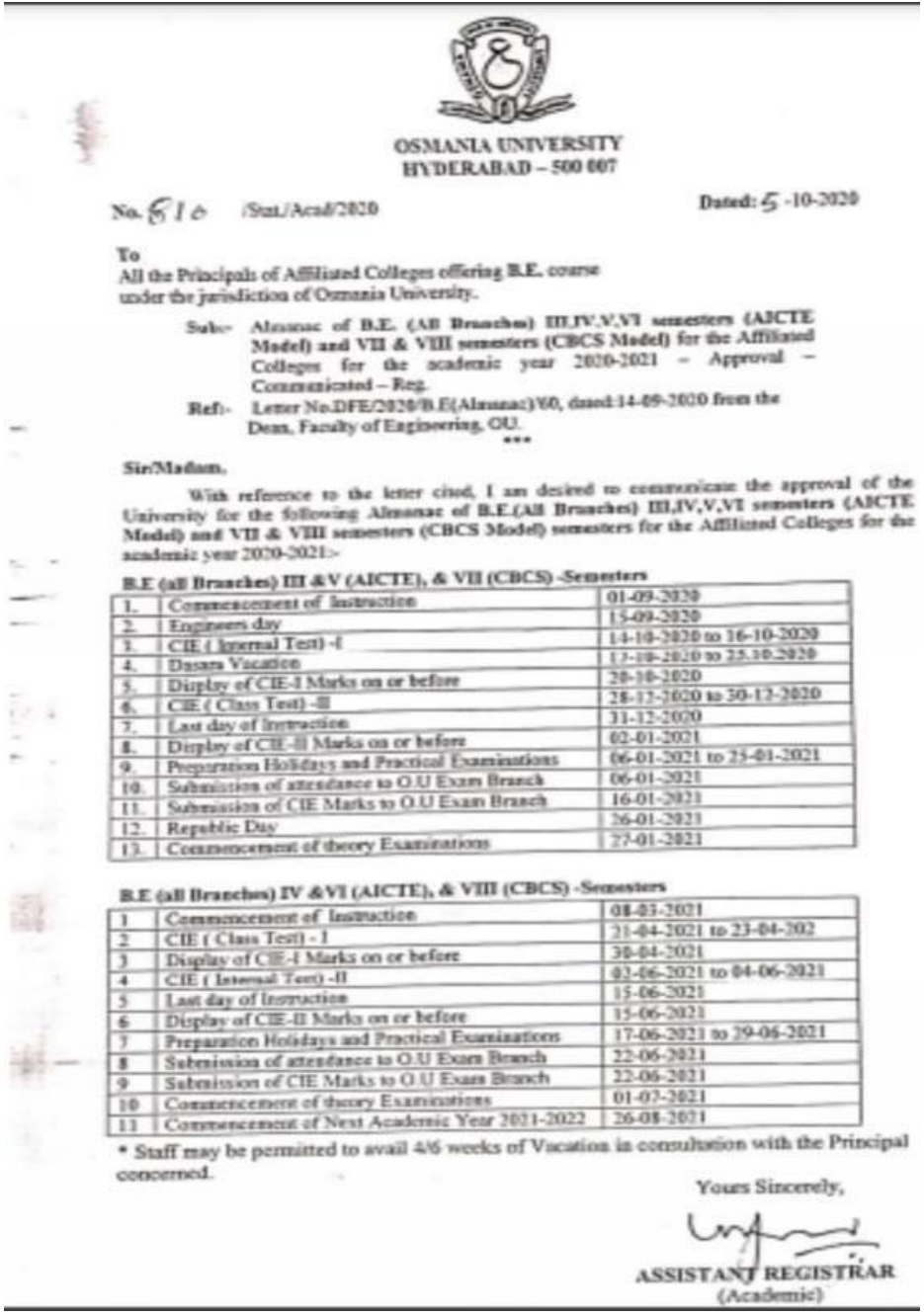
S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	01.09.2020	
2	1st Spell of Instructions (including Dussehra Recess)	01.09.2020	31.10.2020 (9 Weeks)
3	Dussehra Recess	19.10.2020	24.10.2020
4	End Examinations preparation holidays - Previous Semesters	02.11.2020	04.11.2020 (3 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. 816 /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.	Diplay 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.	Diplay 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	Diplay 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	Diplay 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)

Fig2.5UniversityAcademicCalendars for2020–2021

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2018-19)
FOR NON-AUTONOMOUS CONSTITUENT& AFFILIATED COLLEGES
B. TECH. II, III & IV YEARS I & II SEMESTERS

I SEM

S. No	EVENT	DATE	Duration
12.	Commencement of Instruction	9th July 2018	--
13.	First Mid Term Examinations	4th to 6th Sept. 2018	--
14.	Submission of First Mid Term Exam Marks to University on or before	15th Sept. 2018	--
15.	Parent-Teacher Meeting	13th Oct. 2018	--
16.	Dussehra recess	15th to 20th Oct. 2018	1 week
17.	Last date of Instruction	10th Nov. 2018	16 weeks
18.	Second Mid Term Examinations	12th to 14th Nov. 2018	--
19.	Preparation Holidays and Practical Examinations	15th to 24th Nov. 2018	1 week
20.	Submission of Second Mid Term Exam Marks to University on or before	24th Nov. 2018	--
21.	End Semester / Supplementary Examinations	26th Nov. to 8th Dec. 2018	2 weeks
22.	Semester Break	10th to 15th Dec. 2018	1 week

II SEM

S. No	EVENT	DATE	Duration
11.	Commencement of Instruction	24th Dec. 2018	--
12.	First Mid Term Examinations	18th to 20th Feb. 2019	--
13.	Submission of First Mid Term Exam Marks to University on or before	27th Feb. 2019	--
14.	Parent-Teacher Meeting	9th March. 2019	--
15.	Last date of Instruction	20th April 2019	16 weeks
16.	Second Mid Term Examinations	22nd to 24th April 2019	--
17.	Preparation Holidays and Practical Examinations	25th April to 4th May 2019	1 week
18.	Submission of Second Mid Term Exam Marks to University on or before	2nd May 2019	--
19.	End Semester / Supplementary Examinations	6th to 18th May 2019	2 weeks
20.	Summer Vacation	20th May to 13th July 2019	8 weeks

17.12.18
DIRECTOR
ACADEMIC & PLANNING, JNTUH

Figure 2.2.1.1: University issued Academic Calendar for the A.Y. 2018-2019

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.

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

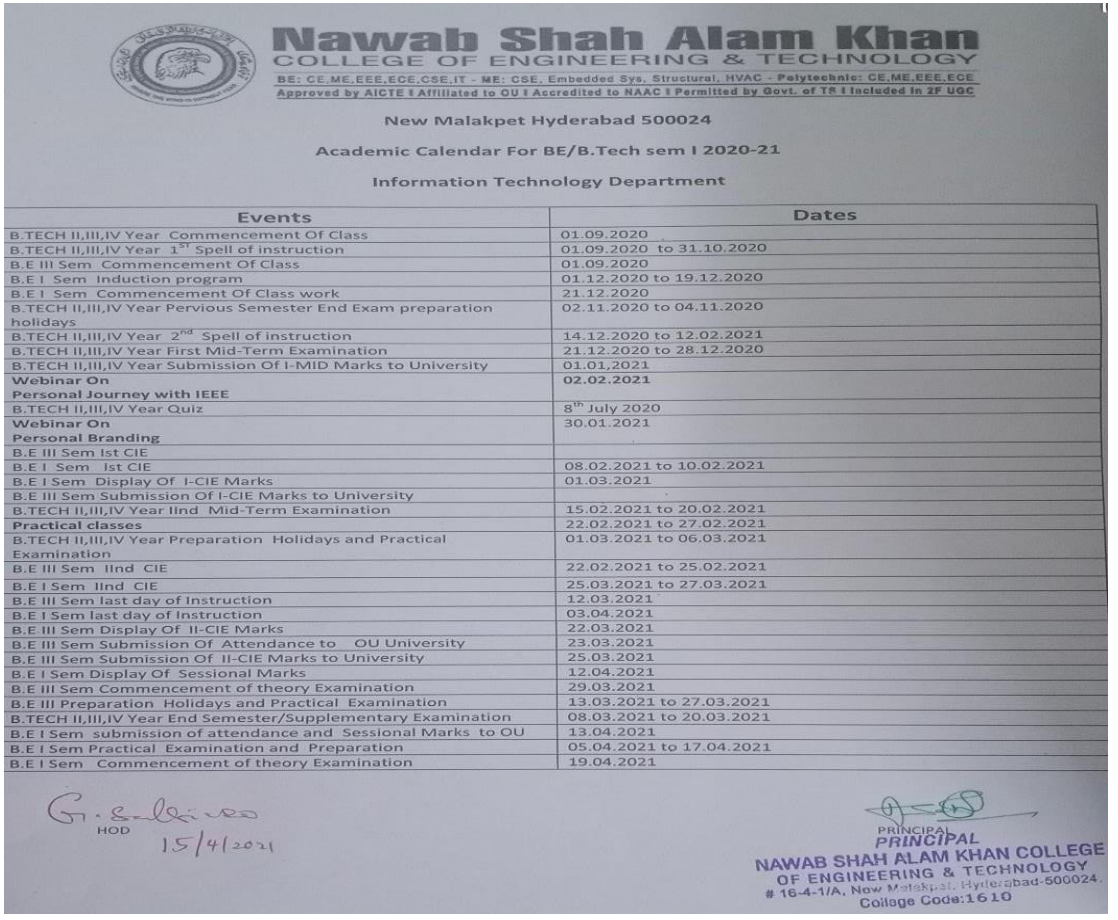
Events	Dates
B.TECH II,III,IV Year Commencement Of Class	01.09.2020
B.TECH II,III,IV Year 1st Spell of instruction	01.09.2020 to 31.10.2020
B.E III Sem Commencement Of Class	01.09.2020
B.E I Sem Induction program	01.12.2020 to 19.12.2020
B.E I Sem Commencement Of Class work	21.12.2020
B.TECH II,III,IV 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

PRINCIPAL
PRINCIPAL
Nawab Shah Alam Khan
College of Engineering & Technology
New Malakpet, Hyderabad-500024.

Fig2.6 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. Itpresents the activities planned for the semester. Subject allotment is done well in advance for the staff to prepare lesson plans, soft and hard copies of the lecture notes.

Sample academic calendar of IT 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

Information Technology 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 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

HOD
15/4/2021

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NAWAB SHAH ALAM KHAN COLLEGE
OF ENGINEERING & TECHNOLOGY
16-4-1/A, New Malakpet, Hyderabad-500024.
College Code:1610

Figure 2.2.1.3: Department Academic Calendar I SEM for the year A.Y. 2019-2020

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. Teaching plan is uploaded in the college attendance management software.

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 July 2019	23rd 24th 25th July 2091	TPS Activity Blackboard
6.	REVISION OF COMPLETE FIRST UNIT	2	30,31st July 2019	26th, 27th July 2019	
7.	Slip Test & Assignment	1	2nd 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	5th Aug 2019	Handwritten Notes
10.	Hash Table Representation,hash 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/106105031/25
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	25thSep 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 belowFaculty 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

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

Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY

IV B.TECH I SEM REG (R16) A.Y (2020-2021)

INDUSTRY ORIENTED MINIPROJECT **DEPT: INFORMATION TECHNOLOGY**

S.NO	GROUP NO	MINI PROJECT TITLE	NAME OF STUDENTS	HALLTICKET NO	INTERNAL GUIDE
1	1	FACE RECOGINATION IN ATTENDANCE SYSTEM	MIR JAFFER ALI	17RT1A1211	MR MOHD AYAZUDDIN
			MOHD FAIZ	17RT1A1228	
			MOHD PERVEZ KHAN	17RT1A1236	
			SYED FAISALUDDIN HUSSAIN	17RT1A1246	
2	2	MED-RELIVE.	MOHD MERAJ	17RT1A1233	DR G.S.S.RAO
			MOHD ZUBER UDDIN	17RT1A1239	
			SYED AHMED ALI	17RT1A1245	
3	3	PREVENTING FALSE DETECTION USING HONEY WORDS	MOHAMMED OMER FAROOQ	15RT1A1224	MR MOHD AYAZUDDIN
			MOHD ABDULLAH SOFI	15RT1A1228	
			SHAH MOHAMMED WAJIHUDDIN	15RT1A1237	
			SYED AHMED ALI	15RT1A1241	
4	4	HOME AUTOMATION THROUGH BLYNK APP & GOOGLE ASSISTANT	SAIRA ZAINA	17RT1A1240	MS TAHERA ABID
			SAMREEN SULTANA	17RT1A1242	
			SYEDA TAMANNA FATIMA	17RT1A1255	
5	5	ADVANCED MOBILE TRACKER	MUJTABA ABID ALI	16RT1A1232	MS SABA MOHAMMADI
			AHMED MUJTABA SIDDIQUE	17RT1A1205	
			MD ARBAAZ	17RT1A1210	
			MOHD NADEEM	17RT1A1235	
6	6	DISEASE PREDICTION USING MACHINE LEARNING APPROACH	JALEEL SIDDIQUI	16RT1A1202	MS FARHEEN SULTANA
			ASIF ALI KHAN	16RT1A1205	
			SYED SAIF ALI	16RT1A1244	
			SYED UZAIR AHMED	16RT1A1248	
7	7	EMOTION RECOGNITION THROUGH SPEECH	ABDUL MUBA KHAN	17RT1A1201	MS PUSHPA ANJALI
			MD .MOHIUDDIN AHMED	17RT1A1218	
			MD AFFAN HYDER KHAN	17RT1A1224	
			AFAAQ AZEEMUDDIN	17RT1A1259	
8	8	HOUSE WORTH PREDICTION	MOHD SAMEER AHMED	17RT1A1237	MR QAZI ABDUL BASHEER
			SHAIK HAFEEZ	17RT1A1244	
			SYED KHAJA HASHIMUDDIN	17RT1A1250	
			SYED SAIFULLAH MEHDI	17RT1A1252	
9	9	WATER MANAGEMENT SYSTEM	MOHD FAREED KHAN	17RT1A1230	MR NASIRUDDIN KHAN
			MOHD SAIF AHMED	17RT1A1257	

3. Role Play

Faculty members are using role playing and scenario analysis based teaching as another Innovative method. Instructors can supplement their teaching methods with role playing in any context where it seems relevant. Even rehearsals of personal situations through role playing with a trusted friend can provide beneficial learning opportunities.

4. 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)

5. 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.

Figure 2.2.1.4: Class taken by faculties using LCD Projector and PPT.

6. 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.

7. Soft Skill Class

Understanding the need of one's personality enables an individual to act more genuinely and effectively in a team environment. Students are encouraged to d eliver presentations in the class which help them to develop ability to gather information, make decisions and interact with others. Soft skills classes empower Students with confidence, boldness, express iveness etc. Also the Students' personality is developed overall.

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

The Coordinators 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 subjec t and below 75% attendance are considered as academically weak Students and same is also intimated to their parents.

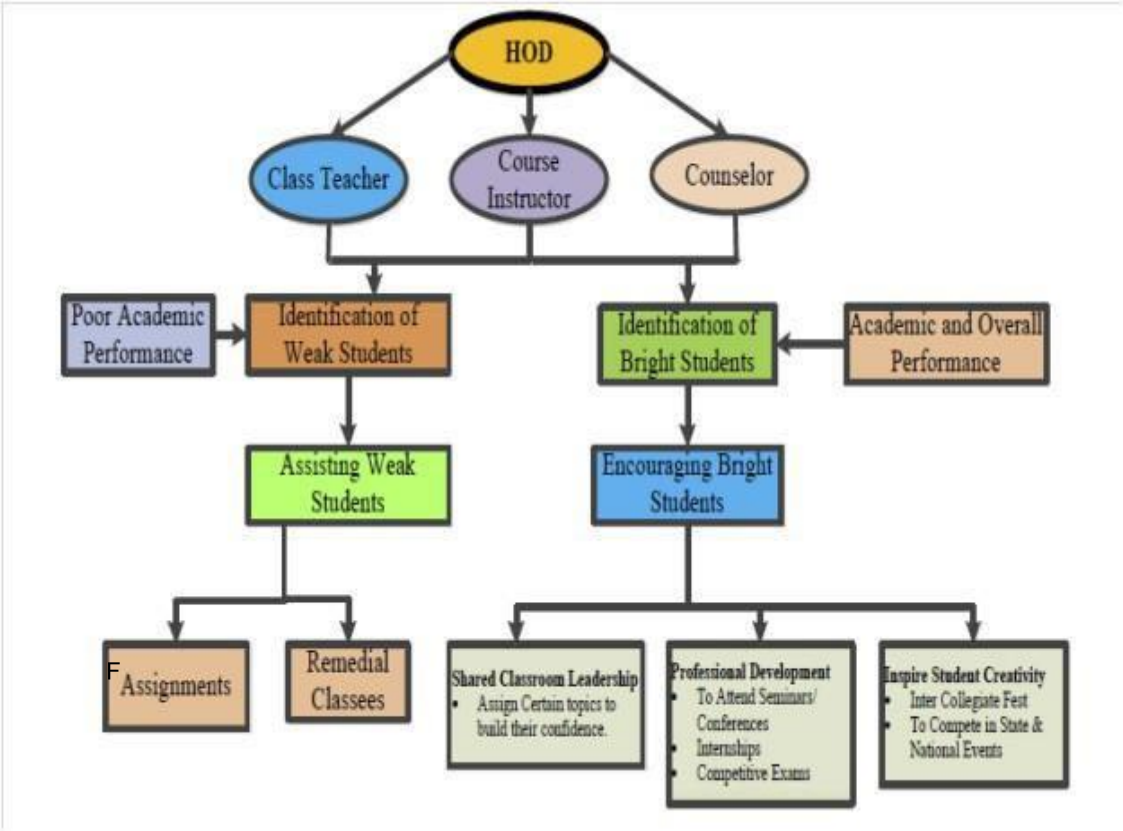
Methodology to support weak Students:

- 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 co rrectivemeasures 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.

Methodology to support bright student:

- The bright Students are identified based on their overall performance and their orientation towards Academics.
- The Department of IT always has the culture of encouraging bright Students by providing them necessary guidance and moral support.

- Encouraging them to score good percentile in their final Examination by providing special and challenging assignments. Encouraging them to participate in seminars/conferences in different institutes.
- Encouraging them to participate in state and national levels quiz and debate competitions.
- Students are encouraged to present their ideas in Workshops, Seminars, and Competitive Exams and also in various events.
- Encouraging them to guide their weak classmates. Teaching others make them more perfect.



2.2.1.5: Process for Encouraging Bright Students and Assisting Weak Students

Impact analysis:

- The following are the positive outcomes observed after adopting the above mentioned Innovative Teaching Learning Process (TLP): Improved attendance of Students for every class.
- Improved Pass Percentage.
- Achieving awards and rewards for their participation in and outside the campus. New view points and new project ideas are derived in class. Better bondage between Students and faculty.

Appreciation from the parents.

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 Information Technology 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 semes ter 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

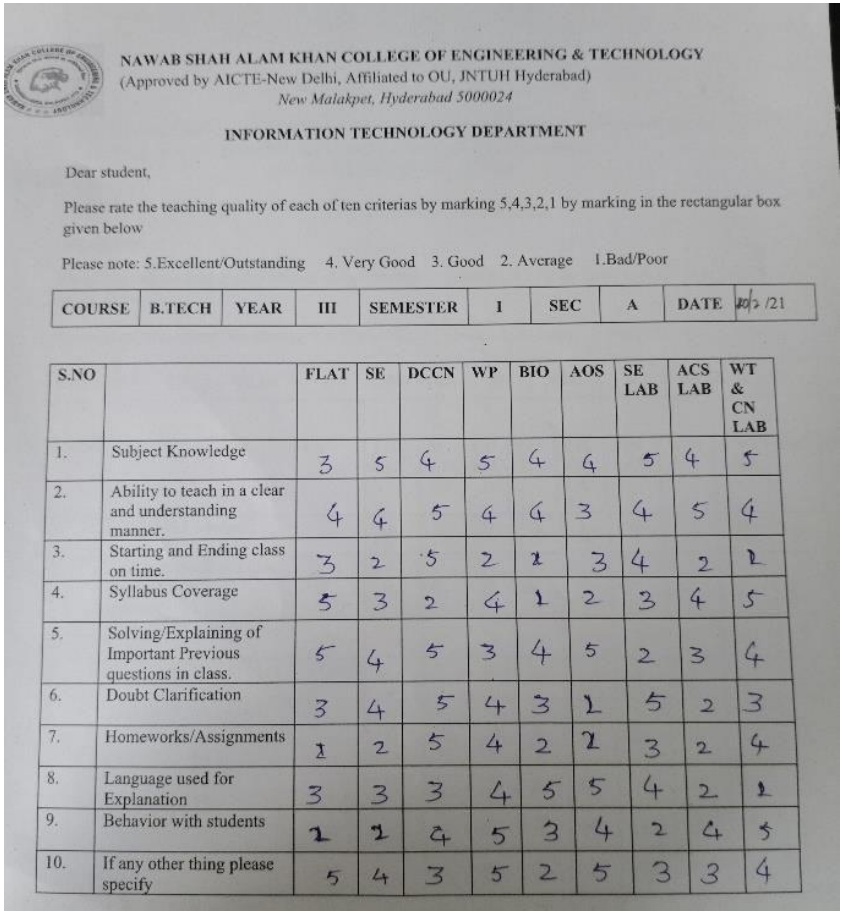
F. Continuous Assessment in the Laboratory

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 actions 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 monitoring andimproving Teaching Learning Process



NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved by AICTE-New Delhi, Affiliated to OU, JNTUH Hyderabad)
New Malakpet, Hyderabad 5000024

INFORMATION TECHNOLOGY DEPARTMENT

Dear student,

Please rate the teaching quality of each of ten criterias 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	III	SEMESTER	I	SEC	A	DATE	/21

S.NO		FLAT	SE	DCCN	WP	BIO	AOS	SE LAB	ACS LAB	WT & CN LAB
1.	Subject Knowledge	3	5	4	5	4	4	5	4	5
2.	Ability to teach in a clear and understanding manner.	4	4	5	4	4	3	4	5	4
3.	Starting and Ending class on time.	3	2	5	2	1	3	4	2	1
4.	Syllabus Coverage	5	3	2	4	1	2	3	4	5
5.	Solving/Explaining of Important Previous questions in class.	5	4	5	3	4	5	2	3	4
6.	Doubt Clarification	3	4	5	4	3	1	5	2	3
7.	Homeworks/Assignments	1	2	5	4	2	1	3	2	4
8.	Language used for Explanation	3	3	3	4	5	5	4	2	1
9.	Behavior with students	1	1	4	5	3	4	2	4	5
10.	If any other thing please specify	5	4	3	5	2	5	3	3	4

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 Subjective
Tests Questions (I & II) are framed as per the CO's.

- 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. Question paper and objective is prepared using Blooms Taxonomy and mapped with CO's.
8. The questions will be of three categories:
    a. Some of the questions is direct and can be answered by all Students.
    b. Some of the questions need analysis and use of content covered as per syllabus.
    c. Remaining one third of the question is knowledge based. Certain amount of thinking, analysis and mathematical knowledge is required to resolve.
9. A Question Paper comprises of 4 questions out of which 2 have to be answered.
10. The Duration of the test is 90 Minutes.
11. The internal quiz Exam is conducted for 10 Marks
12. The Department conducts assignments in the respective subjects for 5 Marks.
13. The assignments may be solving problems, home assignment or slip test.
14. The total internal evaluation is the sum of Internal Subjective Test, Objective Test and Assignments (10+10+5=25).
15. Second Internal Assessment is also done similarly.
16. 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 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

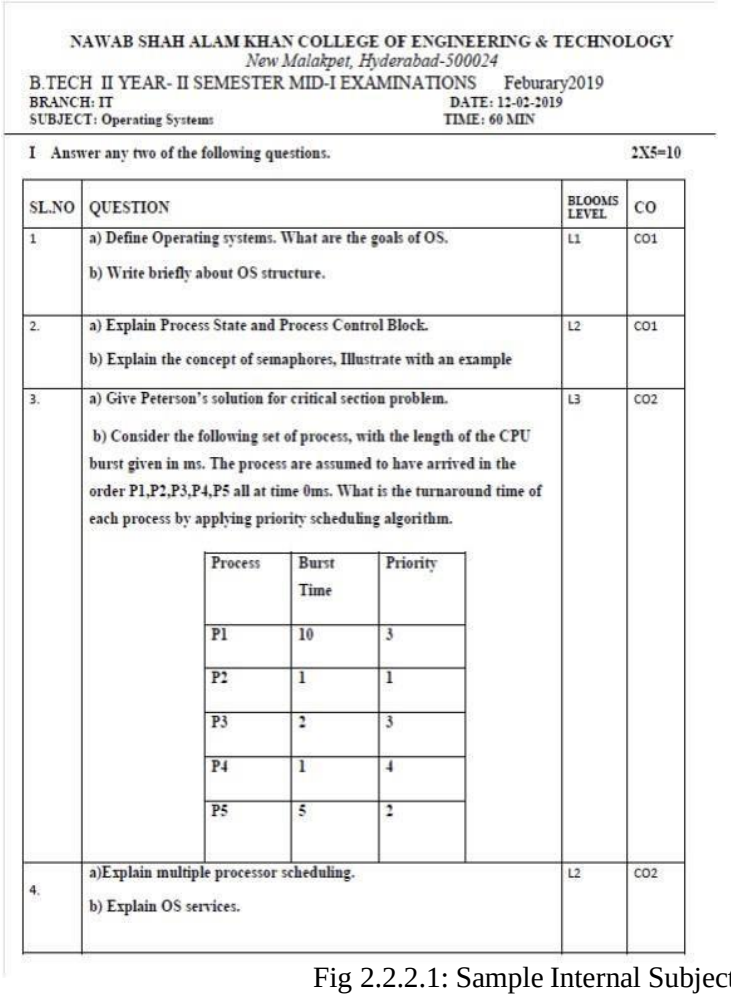
III YEAR- II SEMESTER B.TECH MID-I EXAMINATIONS FEB 2020

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 Position:= initial + rate*60	L2	Co1
2	Construct predictive parsing table for the following grammar E→E+T/T T→T*F/F F→(E)/id and check whether the string id*id*id is accepted or not.	L2	Co2
3	Construct SLR parsing for the following grammar E→E+T/T T→T*F/F F→(E)/id 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. b) Explain briefly about lex tool with example	L6,L2	C02



NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY
New Malakpet, Hyderabad-500024
B.TECH II YEAR- II SEMESTER MID-I EXAMINATIONS Feburary2019
BRANCH: IT DATE: 12-02-2019
SUBJECT: Operating Systems TIME: 60 MIN

I Answer any two of the following questions. 2X5=10

SL.NO	QUESTION	BLOOMS LEVEL	CO
1	a) Define Operating systems. What are the goals of OS. b) Write briefly about OS structure.	L1	CO1
2.	a) Explain Process State and Process Control Block. b) Explain the concept of semaphores, Illustrate with an example	L2	CO1
3.	a) Give Peterson's solution for critical section problem. b) Consider the following set of process, with the length of the CPU burst given in ms. The process are assumed to have arrived in the order P1,P2,P3,P4,P5 all at time 0ms. What is the turnaround time of each process by applying priority scheduling algorithm.	L3	CO2
4.	a)Explain multiple processor scheduling. b) Explain OS services.	L2	CO2

Process	Burst Time	Priority
P1	10	3
P2	1	1
P3	2	3
P4	1	4
P5	5	2

Fig 2.2.2.1: Sample Internal Subjective Test Question Paper

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 has to write it & submit 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.

NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY
New Malakpet, Hyderabad-500024
III YEAR-I SEMESTER B.TECH ASSIGNMENT-3 MID-2 EXAMINATIONS NOV 2019
BRANCH:IT **DATE:**
SUBJECT: Software Engineering

SL.NO	QUESTIONS	BLOOMS LEVEL	CO
1.	a) Distinguish between coupling and cohesion. How do they effect software design? b) List and explain different types of architectural styles and patterns.	L4 L1	CO3
2.	a) Distinguish between error and failure. Which of the two is detected by testing? b) Explain how black box testing differs from white box testing.	L4 L2	CO3
3.	a) What do you mean by risk management? Explain how to select the best risk reduction techniques when there are many ways of reducing a risk. b) Explain about FTR.	L1 L2	CO4
4.	a) How risk is identified.? Explain. b) Discuss about software reviews.	L1 L2	CO4

Fig 2.2.2.2: 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 II semester as a part of their Program Curriculum. It carries 200 Marks & 15 credits. As per the University norms 50 Marks are awarded for Internal Evaluation and 150 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. Information Retrieval Systems
8. Web based Applications
9. Software Engineering
10. Software Reliability
11. Software Systems
12. Mobile App Development
13. Artificial Intelligence
14. Machine Learning
15. Data Science

Impact Analysis

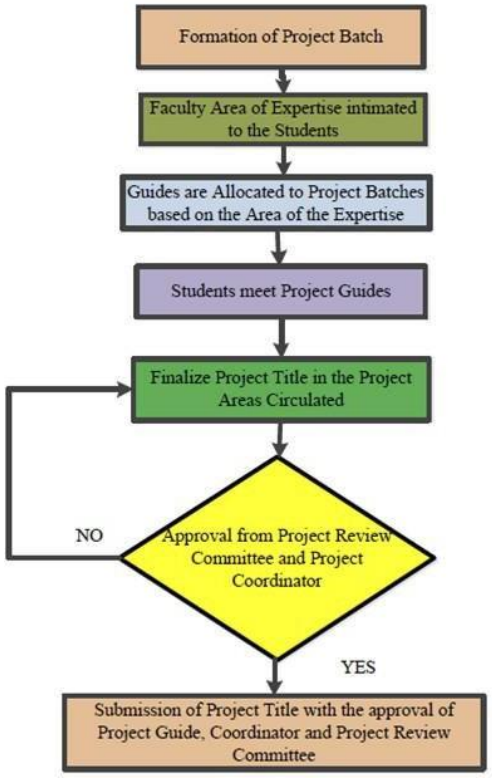
- New innovative ideas are born for project work. Skills or abilities of Students improved.
- Knowledge on various aspects of project management was developed. Confidence level of the Students was boosted.
- Improved teamwork spirit.
- Implementation and deployment of the project for social benefits.
- 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 which is spread over a period of 4 Months. Students are divided into four categories based on their percentages.
- Project batch consists of Students with highest and medium and lowest grades because there could be chance of interaction between all the Students. The Students are divided into 14 to 15 batches based on their strength with each batch comprising of four Students, one from each category.

The student with highest percentage among the batch is the team leader.

- 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 Guidesmay 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



A Sample Project Work Schedule of events is shown in Fig 2.2.3.1

A Sample Project Work Schedule of events is shown in Fig 2.2.3.1

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

DEPARTMENT OF INFORMATION TECHNOLOGY

Project Work Schedule For The Academic Year 2018-2019

All the concern staff members and students are requested to note the following Project work schedule for the final Year B.tech students.

S.No	Program	Dates	Marks
1.	Interaction	17/12/2018	--
2.	Title and Abstract Submission	31/12/2018	10
3.	Acceptance of Title	07/01/2019	--
4.	First Review Literature Survey And Work Progress	21/01/2019	10
5.	Second Review Work Accomplished and Target Reached	13/02/2019	10
6.	Third Review Work completion and conclusion	19/03/2019	10
7.	Report and Thesis submission	05/04/2019	10
8.	Pre viva	09/04/2019	--
9.	Final External viva	12/04/2019	150

Fig 2.2.3.1: Project Work Schedule

The above mentioned points are represented for simplicity in the form of a flowchart :

.

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

In the Department of Information Technology, 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.

Inhouse 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.

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

Project Coordinator identifies the Course Outcomes after consultation with the Project Review Committee and Guides for the Project work. The following are the Course Outcomes Specified for the Project Work:

Recognize a real-world problem and develop its requirements and develop a design solution for a set of

CO1	Develop a design solution for a set of requirements. Formulate a real-world problem and develop its requirements.
CO2	Test and validate the conformance of the developed prototype against the original requirements of theproblem
CO3	Express technical and behavioral ideas and thought in oral settings.
CO4	Express technical ideas, strategies and methodologies in written form, Prepare and conduct oralpresentations.

CO-ID	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	2	2	3	3	2	2	2	2	2
CO2	2	1	3	3	3	1	1	1	3	3	3	2
CO3	2	2	2	1	3	1	1	1	3	3	3	2
CO4	2	2	2	1	3	1	1	1	3	3	3	2

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. The Project Review

Project Review Committee

FacultyName	Designation
1.Dr. G.S.S. Rao	Prof & H.O.D ,IT Department
2.Mr. Mohd Ayaz Uddin	AssociateProfessor IT
3.Ms.Tahera Abid	AssistantProfessor IT

:

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 their progress 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

a. 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.
b. 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.

1. Few students have received toppers certificates.

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.

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
Faculty Development Program

Table 2.2.4.1 List of MOUs

S. No	Industry Name	MOUs Date
1	Perigord Premedia Pvt Ltd	02/11/2020
2	Techieyan technologies	02/01/2019
3	Global talent track pvt limited	28/08/2018

A. Industry supported laboratories

Perigord Premedia Pvt Ltd

- 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 and 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 EngineersFrom 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 onIndustrial Practices, Trends and Experiences. Collaborative Programs with Industry.
- Encouraging engineers from industry to visit Engineering Institution to deliver Guest Lectures & Workshops. Placement.
- Student Counselling 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.

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

Some of the projects undertaken by VIIIth Semester students 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 Information Technology 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.

After the training program and the class delivered by the industry experts, we conduct a questionnaire for students using the following assessment. The sample
- Questionnaire for students on Impact Analysis has been demonstrated below.

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**

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.

SI.NO	NAME OF THE ORGANIZATION	DATE OF VISIT	Percentage of StudentsPresent
1	ISRO/NRC	05/01/2022	50
2	infosys	28/10/2018	90
3	Amtech Solutions	03/10/2019	80

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

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	InteractionType	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

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

D. Student Feedback in 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. This feedback is used for the satisfactory conduct of the program. If the feedback is not satisfactory (for an average value less than 2.5), further

meetings are held with the Coordinator and senior staff members of the department to improve the process of initiatives.

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				

Table 2.2.5.1: Students Feedback on initiatives

3 COURSE OUTCOMES AND PROGRAM OUTCOMES(120) TotalMarks120.00

Define the Program specific outcomes

3.1 Establish the correlation between the courses and the Program Outcomes(POs) and Program Specific Outcomes (PSOs)(20) TotalMarks20.00

:

PSO1	Develop efficient information management systems using latest development tools catering to the globally changing requirements in multi-disciplinary domains.
PSO2	Manage realtime IT projects with consideration of human, financial ,ethical and environmental factors and an understanding of policy implications

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) InstituteMarks:5.00

Note:Number of Outcomes for a Course is expected to be around 6.

CourseName:DATA STRUCTURES	**C216**	**CourseYear:**	**2020-21**

Items	**2020-21**
C216.1	Implement linear, non-linear data structures and balanced binary trees , Understand the basic data structures arrays and linked lists.
C216.2	Analyse time complexity of both iterative and recursive functions. Define ADT necessary for solving problems based on Stacks and Queue
C216.3	Develop solutions using binary trees, advanced search trees, tries and graphs. Use hash functions and handle collisions
C216.4	Understand various kinds of sorting techniques and apply appropriate techniques for solving a given problem.

CourseName:DATABASE SYSTEMS	**C225**	**CourseYear:**	**2020-21**

Items	**2020-21**
C222.1	Develop the knowledge of fundamental concepts of database management and Designing a database using ER modelling approach
C222.2	Implement storage of data, indexing, and hashing
C222.3	Apply the knowledge about transaction management, concurrency control and recovery of database systems.
C222.4	Ability to design entity relationship model and convert entity relationship diagrams into RDBMS and formulate SQL queries on the data.App normalization for the development of application software

CourseName:SOFTWARE ENGINEERING	**C312**	**CourseYear:**	**2020-21**

Items	2020-21
C312.1	Work as an independent individual or as part of a team to develop and deliver quality software.
C312.2	Students will be able to identify the significance of process models.
C312.3	Design innovative solutions in one or more application domains using software engineering approaches that integrate ethical, social, legal, and environmen concerns;
C312.4	Apply current theories, models and techniques that provide a basis for software problem identification, analysis, design, development, implementation, verification, maintenance and documentation.

Course Name PRINCIPLES OF COMPILER CONSTRUCTION	C322	CourseYear:	2020-21

Course Name: DATA MINING	C411	CourseYear:	2020-21

Items	2020-21
C321.1	To perform the preprocessing of data and apply mining techniques on it.
C321.2	Identify the association rules, classification and clusters in large data sets
C321.3	solve real world problems in business and scientific information using data mining
C321.4	Classify web pages, extracting knowledge from the web

Course Name: HUMAN COMPUTER INTERACTION	C423	CourseYear:	2020-21

Items	2020-21
C321.1	Apply HCI and principles to interaction design.
C321.2	Identifying screen navigation and flow – Visually pleasing composition – amount of information – focus and emphasis – presentation info simply and meaningfully –
C321.3	Prototyping in practice Design rationale Design rules Principles to support usability Standards Golden rules and heuristics HCI pattern Evaluation techniques
C321.4	To design certain tools for blind or PH people.

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) InstituteMarks:5.00

1.Course Name: Data Structures C216

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	3	2	1	2			2		2	1	1	3

C216.2		2	2				3			2		
C216.3	2	2	1					2				2
C216.4		2	2									
Average	2.50	2.00	1.50	2.00	0	0	2.50	2.00	2.00	1.50	1.00	2.50

2.Course Name: Database systems C225

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C225.1	3	2	2	2	2				2	1	2	2
C225.2	1	2	2	2	2	2			2	1	2	2
C225.3	3	2	2	2	2				1	1	2	3
C225.4	2	3	2	2	2	1			2	2	2	2
Average	2.25	2.25	2.00	2.00	2.00	1.5	0	0	1.75	1.25	2.00	2.25

3 .course name: Software Engineering C312

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	3											3
C312.2		2	1	2							2	2
C312.3		2			2	1			1		2	2
C312.4			2		1	2		2			1	2
Average	3.00	2.00	1.50	2.00	1.50	1.50	0	2	1	0	1.67	2.25

4 . course name: Principles of compiler constructions C322

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C322.1	3		1									3
C322.2		3	2	3								3
C322.3		3	3									1
C322.4	3	3		2								3
Average	3	3	2.0	2.5	0	0	0	0	0	0	0	2.50

5 . course name: **Data Mining C411**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	3									1		3
C411.2		2	1	2							2	2
C411.3		2			2	1	1				2	2
C411.4			2		1	2					1	2
Average	3	2	1.5	2	1.5	1.5	1	0	0	1	1.66	2.25

6.course name: Human Computer Interaction C423

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C423.1	3	2		1			1		1		2	3
C423.2			2					1				3
C423.3		1	2			1			2	1	2	3
C423.4					1							3
Average	3	1.5	2	1	1	1	1	1	1.5	1	2	3

1 . Course Name:C216

Course	PSO1	PSO2
C216.1	2	2
C216.2		
C216.3	2	2
C216.4		2
Average	2.0	2.0

2 . CourseName:C225

Course	PSO1	PSO2
C225.1	2	2
C225.2	2	1
C225.3	2	2
C225.4	2	1
Average	2.0	1.50

3 .CourseName:C312

Course	PSO1	PSO2
C312.1	1	3
C312.2	2	
C312.3	1	
C312.4		3
Average	1.33	3.0

4 . CourseName:C322

Course	PSO1	PSO2
C322.1		2
C322.2		
C322.3		
C322.4		2
Average	0.0	2

5 . CourseName:C411

Course	PSO1	PSO2
C411.1	1	2
C411.2	2	2
C411.3	1	1
C411.4	1	2
Average	1.25	1.75

6 . CourseName:C423

Course	PSO1	PSO2
C423.1	2	2
C423.2	2	2
C423.3	1	
C423.4		2
Average	1.66	2.0

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

Sno	Subject Code	Course code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	BS102MT	C111	Mathematics - I	2.50	2.50	1.75	1.00	1.67	1.00	1.00	1.00	1.00	1.67	1.50	1.75
2	BS104PH	C112	Engineering Physics	1.07	0.53	0.00	0.80	0.00	0.53	0.53	0.00	0.00	0.53	0.00	0.80
3	ES106EE	C113	Basic Electrical Engineering	0.53	0.53	0.53	0.53	0.53	0.45	0.45	0.00	0.53	0.30	0.40	0.75
5	ES154EE	C115	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
6	BS251PH	C116	Engineering Physics Lab	1.88	2.25	1.88	2.25	0.00	0.00	2.25	0.00	0.00	0.00	1.88	0.00
7	ES156CE	C117	Engineering Graphics Lab	2.25	1.67	1.50	0.00	1.00	0.00	0.00	1.00	2.50	3.00	1.00	2.25
8	MC112CE	C121	Environmental Science	0.45	0.30	0.60	0.45	0.00	0.30	0.30	0.30	0.30	0.30	0.60	0.45
9	MC113PY	C122	Essence of Indian Traditional Knowledge	1.15	0.77	1.53	1.15	0.00	0.77	0.77	0.77	0.77	0.77	0.00	1.15
10	HS101EG	C123	English	0.77	1.15	0.77	1.53	1.15	0.00	0.77	0.77	0.00	0.77	0.77	0.00
11	BS103MT	C124	Mathematics- II	0.90	0.75	0.60	0.30	0.50	0.30	0.30	0.30	0.30	0.50	0.45	0.53
12	BS105CH	C125	Chemistry	1.15	1.15	1.79	0.77	1.53	1.92	1.73	0.77	0.77	0.00	0.77	1.02
13	ES107CS	C126	Programming for Problem Solving	1.30	1.73	1.30	1.48	1.48	1.24	0.74	1.11	1.11	0.74	1.11	0.74
14	HS151EG	C127	English Lab	1.68	1.78	1.88	1.74	1.49	1.74	1.86	1.69	1.58	1.98	1.68	1.78
15	BS153CH	C128	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
16	ES155CS	C129	Programming for Problem Solving Lab	1.00	1.33	2.00	1.00	1.00	1.50	1.00	0.00	1.00	1.00	2.00	1.00
17	ES157ME	C1210	Workshop /Manufacturing lab	1.88	1.13	1.50	2.25	0.00	0.00	2.25	0.00	0.00	0.00	1.88	0.00
18	HS201EG	C211	Effective Technical Communication in English	1.20	1.07	1.07	1.07	1.33	0.80	1.07	0.00	0.80	0.80	1.07	1.20

19	HS202CM	C212	Finance and Accounting	1.33	1.50	1.75	2.00	1.33	2.00	1.00	1.50	2.25	1.75	2.75	1.50
20	BS207MT	C213	Mathematics- III	1.92	1.92	1.34	0.77	1.28	0.77	0.77	0.00	0.77	1.28	1.15	1.34
21	ES214EC	C214	Basic Electronics	1.53	0.77	0.00	1.15	0.00	0.77	0.77	0.00	0.00	0.77	0.00	1.15
22	ES216EC	C215	Digital Electronics	1.73	1.53	1.53	1.53	1.92	1.15	1.53	0.00	1.15	1.15	1.53	1.73
23	PC221IT	C216	Data Structures	2.50	2.00	1.50	2.00	0.00	0.00	2.50	1.00	2.00	1.50	2.00	2.50
24	PC222IT	C217	Mathematical Foundation of Information Technology	1.92	1.92	1.34	0.77	1.28	0.77	0.77	0.00	0.77	1.28	1.15	1.28
25	ES251EC	C218	Basic Electronics Lab	1.88	2.25	1.88	2.25	0.00	0.00	2.25	0.00	0.00	0.00	1.88	0.00
26	PC252IT	C219	Data Structures Lab	1.88	2.25	1.88	1.88	0.00	0.00	2.25	0.00	0.00	0.00	1.88	0.00
27	PC253IT	C2110	IT Workshop Lab	1.88	2.25	1.88	1.88	0.00	0.00	2.25	0.00	0.00	0.00	1.88	0.00
28	HS204ME	C221	Operation Research	2.50	2.25	2.00	2.00	0.00	1.00	1.00	1.00	1.33	1.33	2.00	1.75
29	BS206BZ	C222	Biology For Engineers	1.33	1.33	1.00	2.00	0.00	1.00	0.00	1.00	2.00	1.00	2.00	1.00
30	ES215EC	C223	Signals and Systems	1.02	0.77	0.00	1.53	0.00	0.77	0.77	0.77	1.02	1.02	1.53	1.53
31	PC231IT	C224	Java Programming	1.24	1.60	1.33	1.33	0.00	1.07	1.60	0.53	0.80	1.24	1.07	1.07
32	PC232IT	C225	Data Base System	1.73	1.73	1.53	1.53	0.00	1.15	0.77	0.77	1.34	0.96	1.53	1.73
33	PC233IT	C226	Computer Organization And Microprocessor	1.28	1.79	1.28	1.53	0.00	1.73	1.53	0.77	1.28	1.02	1.53	1.53
34	PC234IT	C227	Data Communication	1.28	1.02	1.53	1.53	0.00	0.96	1.28	0.77	1.28	1.53	1.53	1.73
35	PC261IT	C228	Microprocessor Lab	1.88	2.25	1.88	2.25	0.75	0.00	2.25	0.00	1.88	0.00	1.88	0.00
36	PC263CS	C229	Database System Lab	1.86	1.55	1.69	1.58	1.98	1.68	1.78	1.88	1.74	1.49	1.74	1.86
37	PC262IT	C2210	Java Programming Lab	1.88	2.25	1.88	2.25	0.00	0.00	2.25	0.00	0.00	0.00	1.88	0.00
38	CS501PC	C311	Formal Language & Automata Theory	1.276	0.7292	0.972	0.729	0	0	0	0	0	0	0	0
39	CS502PC	C312	Software Engineering	1.438	0.9583	0.719	0.958	0.719	0.719	0	0.958	0.479	0	0.799	1.078
40	IT503PC	C313	Data Communication Computer Networks	2.125	1.4167	1.063	0.708	1.063	0.708	0	0	1.417	0	1.417	0.708
41	IT504PC	C314	Web Programming	0.688	0.401	0.688	0.229	0.63	0	0.229	0.688	0.306	0	0.229	0.401

42	IT511PE	C315	Biometrics	1.5	1	0.75	1	0.75	0.75	0	1	0.5	0	0.833	1.125
43	CS522PE	C316	Advanced Operating System	1.5	1.125	0	0	0	0	0	0	0	0.75	0.75	1.5
44	CS505PC	C317	Software Engineering Lab	1.13	1.50	1.50	1.50	0.75	1.50	0.75	0.00	2.25	2.25	1.50	0.75
45	IT506PC	C318	Computer Networks & Web Programming Lab	1.50	1.50	2.25	0.00	1.50	1.50	0.00	0.00	1.50	2.25	1.50	2.25
46	EN508HS	C319	Advanced Communication Skills Lab	2.25	2.25	0.00	2.25	0.00	2.25	2.25	0.00	2.25	2.25	1.50	1.50
47	IT601PC	C321	Introduction to Embedded System	1.458	1.4583	1.094	1.094	1.458	0.729	1.458	0	0	1.094	0	1.094
48	IT602PC	C322	Principles of Compiler Construction	2.188	2.1875	1.458	1.823	0	0	0	0	0	0	0	1.823
49	IT603PC	C323	Algorithm Design And Analysis	1.5	1.3333	1	0.5	0.5	0	0	0	0	0	0	1.5
50	IT604PC	C324	Internet Of Things	1.146	1.2222	0.917	0.458	0.458	0.458	0	0	0	0	0.688	1.375
51	CS615PE	C325	Software Testing Methodologies	0.688	0.4583	0	0.458	0.917	0	0.917	0.458	0.458	0.917	0.458	0.458
52	CS605PC	C326	Disaster Preparedness & Planning Management	1	0.8333	1	0.5	0.5	1.25	1.5	0	0	0	0.75	1.5
54	IT606PC	C328	Compiler Construction Lab	2.25	2.25	1.50	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.88
55	CS615PE	C329	Software Testing Methodologies Lab	1.50	1.50	1.13	1.13	1.00	1.50	0.75	0.00	0.00	1.50	1.13	1.50
56	IT605PC	C3210	Embedded System and Internet of Things Lab	2.25	1.50	1.50	1.88	1.50	0.75	0.00	0.00	0.75	1.13	1.13	1.88
57	CS701PC	C411	Data Mining	2.25	1.5	1.125	1.5	1.125	1.125	0.75	0	0	0.75	1.25	1.688
58	IT702PC	C412	Android Application Development	2.25	2	2.333	1.667	1.5	1	0	0	1.667	3	2.333	2.333
59	CS721PE	C413	Python Programming	0.5	0.5	0.625	0.375	0.625	0	0	0	0	0	0.563	0.25
60	CS734PE	C414	Software Process and Project Management	2	1.5	1.5	1.5	1.5	1.5	0	0	1	1.5	2	2
61	CS742PE	C415	Cloud Computing	3	2	1.5	2	1.5	1.5	0	0	0	1	1.667	2.25
62	IT703PC	C416	Android Application Development Lab	1.50	1.75	2.50	2.00	2.00	0.00	1.00	0.00	1.00	1.00	2.00	0.00
63	CS751PC	C417	Python Programming Lab	2.00	2.00	2.50	1.50	2.50	0.00	0.00	0.00	0.00	0.00	2.25	1.50
64	IT705PC	C418	Industry Oriented Mini Project	2.33	2.25	2.00	1.50	3.00	0.00	0.00	0.00	0.00	0.00	3.00	2.00
65	IT706PC	C419	Seminar	2.33	2.25	2.00	1.50	3.00	1.00	1.00	1.00	3.00	3.00	3.00	2.00

66	**CS031OE**	**C421**	**Environmental Impact Assessment**	**3**	**2.6667**	**2**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
67	**CS862PE**	**C422**	**Modern Software Engineering**	**3**	**2.6667**	**2**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
68	**IT863PE**	**C423**	**Human Computer Interaction**	**3**	**1.5**	**2**	**1**	**1**	**1**	**1**	**1**	**1.5**	**1**	**2**	**3**
69	**IT801PC**	**C424**	**Major Project**	**1.69**	**1.50**	**1.69**	**1.31**	**2.06**	**1.13**	**1.13**	**0.00**	**0.00**	**2.06**	**2.06**	**1.50**
			AVERAGE	**1.653**	**1.5209**	**1.494**	**1.333**	**1.275**	**1.087**	**1.243**	**0.911**	**1.235**	**1.3**	**1.461**	**1.488**

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

Sno	Course Title	Subject Code	Course code	pso1	pso2
1	Mathematics - I	BS102MT	C111	1.00	2.00
2	Engineering Physics	BS104PH	C112	0.53	0.53
3	Basic Electrical Engineering	ES106EE	C113	0.30	0.30
4	Basic Electrical Engineering Lab	ES154EE	C115	0.75	0.00
5	Engineering Physics Lab	BS251PH	C116	2.25	1.50
6	Engineering Graphics Lab	ES156CE	C117	1.75	1.50
7	Environmental Science	MC112CE	C121	0.30	0.30
8	Essence of Indian Traditional Knowledge	MC113PY	C122	0.77	0.77
9	English	HS101EG	C123	1.15	1.15
10	Mathematics- II	BS103MT	C124	0.30	0.60
11	Chemistry	BS105CH	C125	0.00	0.77
12	Programming for Problem Solving	ES107CS	C126	1.48	1.30
13	English Lab	HS151EG	C127	1.88	1.49
14	Chemistry Lab	BS153CH	C128	1.00	1.00
15	Programming for Problem Solving Lab	ES155CS	C129	1.00	1.00
16	Workshop /Manufacturing lab	ES157ME	C1210	2.00	1.50
17	Effective Technical Communication in English	HS201EG	C211	1.07	0.80
18	Finance and Accounting	HS202CM	C212	1.25	1.67

19	Mathematics- III	BS207MT	C213	0.77	1.53
20	Basic Electronics	ES214EC	C214	0.77	0.77
21	Digital Electronics	ES216EC	C215	1.53	1.15
22	Data Structures	PC221IT	C216	2.00	2.00
23	Mathematical Foundation of Information Technology	PC222IT	C217	0.77	1.53
24	Basic Electronics Lab	ES251EC	C218	2.25	1.50
25	Data Structures Lab	PC252IT	C219	1.69	1.50
26	IT Workshop Lab	PC253IT	C2110	1.69	1.50
27	Operation Research	HS204ME	C221	1.50	1.33
28	Biology For Engineers	BS206BZ	C222	1.33	1.50
29	Signals and Systems	ES215EC	C223	1.02	1.15
30	Java Programming	PC231IT	C224	1.60	1.07
31	Data Base System	PC232IT	C225	1.53	1.15
32	Computer Organization And Microprocessor	PC233IT	C226	1.28	0.96
33	Data Communication	PC234IT	C227	1.53	1.15
34	Microprocessor Lab	PC261IT	C228	2.25	1.50
35	Database System Lab	PC263CS	C229	1.39	1.78
36	Java Programming Lab	PC262IT	C2210	2.25	1.50
37	Formal Language & Automata Theory	CS501PC	C311	0.972222222	2.1875
38	Software Engineering	CS502PC	C312	0.638888889	1.4375
39	Data Communication Computer Networks	IT503PC	C313	0.708333333	0.70833333

40	Web Programming	IT504PC	C314	0.305555556	0.6875
41	Biometrics	IT511PE	C315	0.666666667	1.5
42	Advanced Operating System	CS522PE	C316	0.75	1
43	Software Engineering Lab	CS505PC	C317	1.50	0.75
44	Computer Networks & Web Programming Lab	IT506PC	C318	1.75	2.06
45	Advanced Communication Skills Lab	EN508HS	C319	2.25	1.13
46	Introduction to Embedded System	IT601PC	C321	1.09375	1.09375
0	Principles of Compiler Construction	IT602PC	C322	0	1.458333
48	Algorithm Design And Analysis	IT603PC	C323	0.8333333	1
49	Internet Of Things	IT604PC	C324	0.7638889	0.916667
50	Software Testing Methodologies	CS615PE	C325	0.9166667	0.916667
51	Disaster Preparedness & Planning Management	CS605PC	C326	0.8333333	1
53	Compiler Construction Lab	IT606PC	C328	0.75	1.50
54	Software Testing Methodologies Lab	CS615PE	C329	1.25	1.13
55	Embedded System and Internet of Things Lab	IT605PC	C3210	1.13	1.50
56	Data Mining	CS701PC	C411	0.9375	1.3125
57	Android Application Development	IT702PC	C412	1.25	2
58	Python Programming	CS721PE	C413	0.625	0.25
59	Software Process and Project Management	CS734PE	C414	1.5	1.333333
60	Cloud Computing	CS742PE	C415	1.25	1.75
61	Android Application Development Lab	IT703PC	C416	2.00	1.00

62	Python Programming Lab	CS751PC	C417	2.50	1.00
63	Industry Oriented Mini Project	IT705PC	C418	3.00	2.75
64	Seminar	IT706PC	C419	2.75	2.75
65	Environmental Impact Assessment	CS031OE	C421	1.6666667	2
66	Modern Software Engineering	CS862PE	C422	1.6666667	2
67	Human Computer Interaction	IT863PE	C423	1.6666667	2
68	Major Project	IT801PC	C424	2.25	2.06
		AVERAGE		1.3245919	1.31697

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

3.2.1 Describe the assessment processes used together 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.G. Sambasiva Rao	Professor and HOD of IT Department
2	Mr.Mohammed Ayaz Uddin	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 conduc tthe practical test.
3. There will be a limit of 25 Internal Assessment Marks in each practical paper.
4. The evaluation process for lab courses are done by the lab In-Charge considering the different segments:

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

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.G.SambasivaRao	Professor & HOD of IT Department
2.Mr.Mohammed AyazUddin	Associate Professor
3.Ms.Sumera Jabeen	Assisstant Professor

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	Datain 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 batchwise, 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.G.SambasivaRao	Professor & HOD of IT Department
2.Mr.MohammedAyazUddin	Associate Professor
3.Ms.TaheraAbid	Assistant Professor

4. The Students will submit the Abstract to the coordinator and the project will be finalized by the Head of the Department by conducting the TitleFinalizationReviewbytheendof7semester.
5. Project Coordinatorsassignstheguidesforprojectteammembersbasedon Areaofspecializationoffacultymembers.
6. TheProjectguideswillfollowupandmonitortheprojectworkandtheprogressofstudentsondaily/weeklybasisthroughscheduleasmentionedbelow:

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 the min every area of presentation during the 8 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 evels(40)

InstituteMarks:40.00

(The attainment levels shall be set considering average performance levels in the university examination or anyhigher values etas target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect to the Course Outcomes of a course inaddition to the performance in the University examination)

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.,the program may choose an attainment level on its own with justification.

Example related to attainment levels vs. targets: (The examples indicated are for reference only. Program may appropriately define levels)

AttainmentLevel1:35%studentsscoringmorethan35%marks(target)outoftherelevantmaximummarksofsetattainmentlevelinthefinaluniversityexamination.

AttainmentLevel2:45%studentsscoringmorethan35%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, the nall 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.
- Iftargetsarenotachievedtheprogram shouldputinplaceanactionplantoattainthetargetinsubsequentyears.

MeasuringCOattainmentthroughInternalAssessments:(Theexamplesindicatedareforreferenceonly.Programmayappropriatelydefinelevels)

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,miniprojects,majorprojectandcomprehensivevivaetc.asmappedwiththePOs)Example

MidExam1addressesCO1andCO2distributedbetweenassignment, quizanddescriptiveexamoutofmaximum25marks.ExamplesrelatedtoattainmentlevelsVs.targets:

AttainmentLevel1: 50% students scoring more than 60% marks (target)out of the relevant maximum marks.

AttainmentLevel2: 60% students scoring more than 60% marks(target) out of the relevant maximum marks.

AttainmentLevel3:70% students scoring more than 60% marks (target) out of the relevant maximum marks. Similar targets and achieve mentare 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: Substantially. 3 Attainment through Internal Assessment: Moderatei.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 : DIRECTMETHOD

	ACADEMICYEAR	TARGET	
CAY:	2021-20	Competence35% Threshold Target	
CAYm1:	2020-19	Competence35% Threshold Target	
CAYm2:	2019-18	Competence35% Threshold Target	
FORINTERNALEXAMS			
ATTAINMENT LEVEL	MIDEXAM(DESCRIPTIVE+QUIZ+ASSIGNMENT)		
0	<50% students got target		
1	50% to 59%students got more than target		
2	60%to69% students got more than target		
3	≥70% students got more than target		
FOREXTERNALEXAMS			
ATTAINMENT LEVEL	CAY(21-20)	CAYm1(20-19)	CAYm2(19-18)
0	<35%studentsgot target$^{<35\%}_{studentsgot}$	target	<35%studentsgottarget
1	35% to 44%studentsgot More than target	35%to44%students Got more than target	35%to44%studentsgot More than target
2	45%to54%studentsgotmo rethantarget	45%to54%studentsgo tmorethantarget	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(19-18)	TARGET-7 (CGPA)CAYM1(20-19)	TARGET-8(CGPA)CAY(20-21)
0	<50% students got target	<50% students got target	<50% students got target
1	50%to59%students Got more than target	50%to59%studentsgot More than target	50% to 59%students got More than target
2	60%to69%students Got more than target	60%to69%studentsgot More than target	60%to69%studentsgot 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 ATTAINMENTS2020-2021

DEPARTMENT OF INFORMATION TECHNOLOGY

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

Subje DATABASE SYSTEMS | Subject Code: 449 | Facult Mr.MOHD AYAZ UDDIN

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&Q	Q 4 (7 M)	Q 5 (7 M)	BEST OF Q4&Q	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&Q	Q 4 (7 M)	Q 5 (7 M)	BEST OF Q4&Q	CIE-2 TOTAL (30 M)	Average CIE	TOTAL Marks	End Exam
		C01	C02	C01	C02	C01	C01	Q2&Q	C02	C02	Q4&Q	(30 M)	C03	C04	C03	C04	C03	C03	Q2&Q	C04	C04	Q4&Q	(30 M)	(30 M)	(100 M)	(70 M)
1	161019737001	5	4	3	3	6		6	6		6	27	5	5	3	3	6		6		7	7	29	28	59	31
2	161019737002	4	5	2	3		6	6		6	6	26	5	5	3	3		6	6	6		6	28	27	58	31
3	161019737003	5	5	3	3	6		6	6		6	28	4	5	2	3	6		6		6	6	26	27	59	32
4	161019737004	4	5	2	3		6	6		6	6	26	5	5	3	3		6	6	6		6	28	27	57	30
5	161019737005	5	5	3	3	6		6	7		7	29	5	4	3	3	6		6		6	6	27	28	49	21
6	161019737006	4	5	2	3		6	6		6	6	26	5	5	3	3		5	5		7	7	28	27	39	12
7	161019737007	5	4	3	3	5		5	7		7	27	5	5	3	3	6		6	7		7	29	28	48	20
8	161019737008	5	5	3	3	6		6		6	6	28	5	5	3	3	7		7		7	7	30	29	49	20
9	161019737009	5	4	2	2	5		5	6		6	24	5	4	3	3		6	6	6		6	27	26	69	44
10	161019737010	4	5	2	3		6	6		6	6	26	5	5	3	3	6		6	6		6	28	27	49	22
11	161019737011	4	5	2	2	5		5	5		5	23	4	4	3	2	7		7		5	5	25	24	69	45
12	161019737012	5	4	2	2	5		5	4		4	22	5	4	2	2		5	5	6		6	24	23	23	0
13	161019737013	5	4	3	3		6	6		6	6	27	5	5	3	3	6		6		7	7	29	28	49	21
14	161019737014	4	5	2	3	6		6	6		6	26	5	5	3	3		7	7	5		5	28	27	39	12
15	161019737016	4	5	2	3		6	6		6	6	26	5	5	3	3	6		6		6	6	28	27	49	22
16	161019737017	4	5	2	3		6	6	5		5	25	5	4	3	3		6	6		6	6	27	26	39	13
17	161019737018	5	4	3	3		6	6	6		6	27	5	5	3	3	6		6	7		7	29	28	39	11
18	161019737019	4	4	2	2	5		5		3	3	20	5	4	2	2		5	5		4	4	22	21	39	18
19	161019737020	4	5	2	3		6	6	6		6	26	5	5	3	3	6		6		6	6	28	27	59	32
20	161019737021	5	4	3	3		6	6		6	6	27	5	5	3	3	6		6	7		7	29	28	59	31
21	161019737022	4	5	2	3		5	5		7	7	26	5	5	3	3	6		6	6		6	28	27	69	42
22	161019737023	4	5	2	3		5	5	7		7	26	5	5	3	3	5		5		7	7	28	27	39	12
23	161019737024	5	4	3	3		6	6	6		6	27	5	5	3	3	6		6		7	7	29	28	49	21
24	161019737025	4	5	2	3		5	5	7		7	26	5	5	3	3		5	5	7		7	28	27	69	42
25	161019737026	4	5	2	3		6	6		5	5	25	5	5	3	3	6		6		5	5	27	26	39	13
26	161019737027	5	5	3	3	7		7	7		7	30	5	5	3	3		7	7	7		7	30	30	79	49

27	161019737028	5	4	3	3		6	6		6	6	27	5	5	3	3	6		6		7	7	29	28	49	21
28	161019737029	4	5	2	3		5	5		7	7	26	5	5	3	3		5	5	7		7	28	27	39	12
29	161019737030	4	5	2	3		5	5	6		6	25	5	5	3	3	6		6	5		5	27	26	58	32
30	161019737031	5	4	3	3		6	6	6		6	27	5	5	3	3	6		6		7	7	29	28	68	40
31	161019737032	4	5	2	3		5	5	7		7	26	5	5	3	3		5	5		7	7	28	27	79	52
32	161019737033	4	5	2	3		5	5		6	6	25	5	5	3	3	6		6	5		5	27	26	69	43
33	161019737034	5	5	3	3	6		6	6		6	28	5	5	3	3	7		7	7		7	30	29	68	39
34	161019737035	4	5	2	3		5	5	5		5	24	5	5	3	3	6		6		4	4	26	25	49	24
35	161019737036	4	5	2	3		5	5		7	7	26	5	5	3	3		5	5	7		7	28	27	27	0
36	161019737037	5	5	3	3	6		6		6	6	28	5	5	3	3	7		7	7		7	30	29	79	50
37	161019737038	4	5	2	3		5	5	6		6	25	5	5	3	3	6		6		5	5	27	26	26	0
38	161019737039	4	5	2	3		5	5		5	5	24	5	4	3	3	7		7	4		4	26	25	79	54
39	161019737040	5	4	3	3		6	6	6		6	27	5	5	3	3		6	6		7	7	29	28	49	21
40	161019737041	4	5	2	3		5	5		6	6	25	5	5	3	3	6		6	5		5	27	26	69	43
41	161019737042	5	5	3	3	6		6		6	6	28	5	5	3	3	7		7	7		7	30	29	69	40
42	161019737043	4	5	2	3		5	5	6		6	25	5	5	3	3	6		6		5	5	27	26	49	23
43	161019737045	5	5	3	3	6		6	6		6	28	5	5	3	3		7	7	7		7	30	29	59	30
44	161019737047	4	5	2	3		5	5		6	6	25	5	5	3	3		5	5		6	6	27	26	39	13
45	161019737048	5	5	3	3	6		6		6	6	28	5	5	3	3	7		7	7		7	30	29	49	21
46	161019737049	4	5	2	3		5	5	6		6	25	5	5	3	3		5	5		6	6	27	26	39	13
47	161019737050	4	5	2	3		5	5		5	5	24	5	5	3	3	6		6	4		4	26	25	38	13
48	161019737051	4	5	2	3	5		5		6	6	25	5	5	3	3		5	5	6		6	27	26	39	13
49	161019737052	4	5	2	3	5		5	6		6	25	5	5	3	3	6		6		5	5	27	26	49	23
50	161019737053	4	5	2	3		5	5		7	7	26	5	5	3	3		5	5	7		7	28	27	49	22
51	161019737054	4	5	2	3		5	5	7		7	26	5	5	3	3		5	5		7	7	28	27	79	52
52	161019737055	4	5	2	3		5	5		7	7	26	5	5	3	3		5	5	7		7	28	27	49	22
53	161019737056	4	5	2	3		5	5	6		6	25	5	5	3	3		5	5		6	6	27	26	59	33
54	161019737057	5	4	3	3		6	6		6	6	27	5	5	3	3		6	6		7	7	29	28	89	61
55	161019737058	4	5	2	3		5	5		6	6	25	5	5	3	3		5	5	6		6	27	26	59	33
56	161019737059	5	4	3	3		6	6		6	6	27	5	5	3	3		6	6	7		7	29	28	79	51
57	161019737060	4	5	2	3		5	5	7		7	26	5	5	3	3		5	5	7		7	28	27	78	51
58	161019737301	4	5	2	3		5	5		6	6	25	5	5	3	3		5	5		6	6	27	26	78	52
59	161019737302	5	4	3	3		6	6	6		6	27	5	5	3	3		6	6	7		7	29	28	68	40

59	161019737302	5	4	3	3		6	6	6		6	27	5	5	3	3		6	6	7		7	29	28	68	40
60	161019737303	5	4	3	3		6	6	6		6	27	5	5	3	3		6	6	7		7	29	28	69	41
61	161019737304	5	4	3	3		6	6	5		5	26	5	5	3	3		6	6		6	6	28	27	68	41
62	161019737305	4	5	2	3		5	5		5	5	24	5	5	3	3	6		6	4		4	26	25	39	14
63	161019737306	5	4	3	3		6	6	6		6	27	5	5	3	3		6	6	7		7	29	28	59	31
64	161019737307	5	4	3	3		6	6	6		6	27	5	5	3	3		6	6	7		7	29	28	58	30
Average Marks		4.42	4.70	2.39	2.94	5.67	5.48	5.53	6.06	5.93	6.00	25.98	4.97	4.89	2.95	2.95	6.19	5.56	5.88	6.29	6.10	6.20	27.84	26.91	55.66	30.17

CIE (Mid Exam) CO Wise Percentage

COURSE OUTCOME	CO Wise Sum	CO Wise Percentage %
C01	12.34	82.29
C02	13.64	90.94
C03	13.80	91.98
C04	14.05	93.65
Average	13.46	89.71

CIE - CO Wise Sum Formula
= ASG(C01) + Q1(C01) + BestOfQ2&Q3(C
= ASG(C02) + Q1(C02) + BestOfQ4&Q5(C
= ASG(C03) + Q1(C03) + BestOfQ2&Q3(C
= ASG(C04) + Q1(C04) + BestOfQ4&Q5(C

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	30.17
tudent Count >Avg	30
Total Students	64
Percentage	46.9

SEE (End Exam) CO Wise Percentage

C01-C04	30.17	46.88

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
C01	82	3	46.88	1	1.6
C02	91	3	46.88	1	1.6
C03	92	3	46.88	1	1.6
C04	94	3	46.88	1	1.6
Average					1.6

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		Attainment
CO1	3	2	2	2	2		1		2	1	2	2	2	2		1.6
CO2	1	2	2	2	2	2			2	1	2	2	2	1		1.6
CO3	3	2	2	2	2		1		1	1	2	3	2	2		1.6
CO4	2	3	2	2	2	1			2	2	2	2	2	1		1.6
Avera	2.25	2.25	2	2	2	1.5	1	0	1.75	1.25	2	2.25	2	1.5		1.6

Final Attainment %

- CO1 = (DIRECT ATTAINMENT*0.8) + (INDIRECT
- CO2 = (DIRECT ATTAINMENT*0.8) + (INDIRECT
- CO3 = (DIRECT ATTAINMENT*0.8) + (INDIRECT
- CO4 = (DIRECT ATTAINMENT*0.8) + (INDIRECT

Course PO Attainments

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
Direct Attainment	1.2	1.2	1.07	1.067	1.07	0.8	0.53	0	0.93	0.67	1.07	1.2	1.07	0.8	
Indirect Attainment	1.4	1.4	1.33	1.333	1.33	1.2	1.07	0.8	1.27	1.13	1.33	1.4	1.33	1.2	
Final Attainment	1.24	1.24	1.12	1.12	1.12	0.88	0.64	0.16	1	0.76	1.12	1.24	1.12	0.88	

PO ATTAINMENTS

- DIRECT ATTAINMENT (PO1)= (Average of PO1*Average of CO Direct
- Similar for PO2 TO PO12 & PSO1 TO PSO3
- ECT ATTAINMENT (PO1) = (Average of PO1*Average of CO Direct Attainm
- Similar for PO2-PO12 & PSO1 TO PSO3
- FINAL ATTAINMENT = (DIR ATNM-PO1)*0.8 + (INDIR ATNM-PO1)*0.2

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50) **TotalMarks50.00**

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

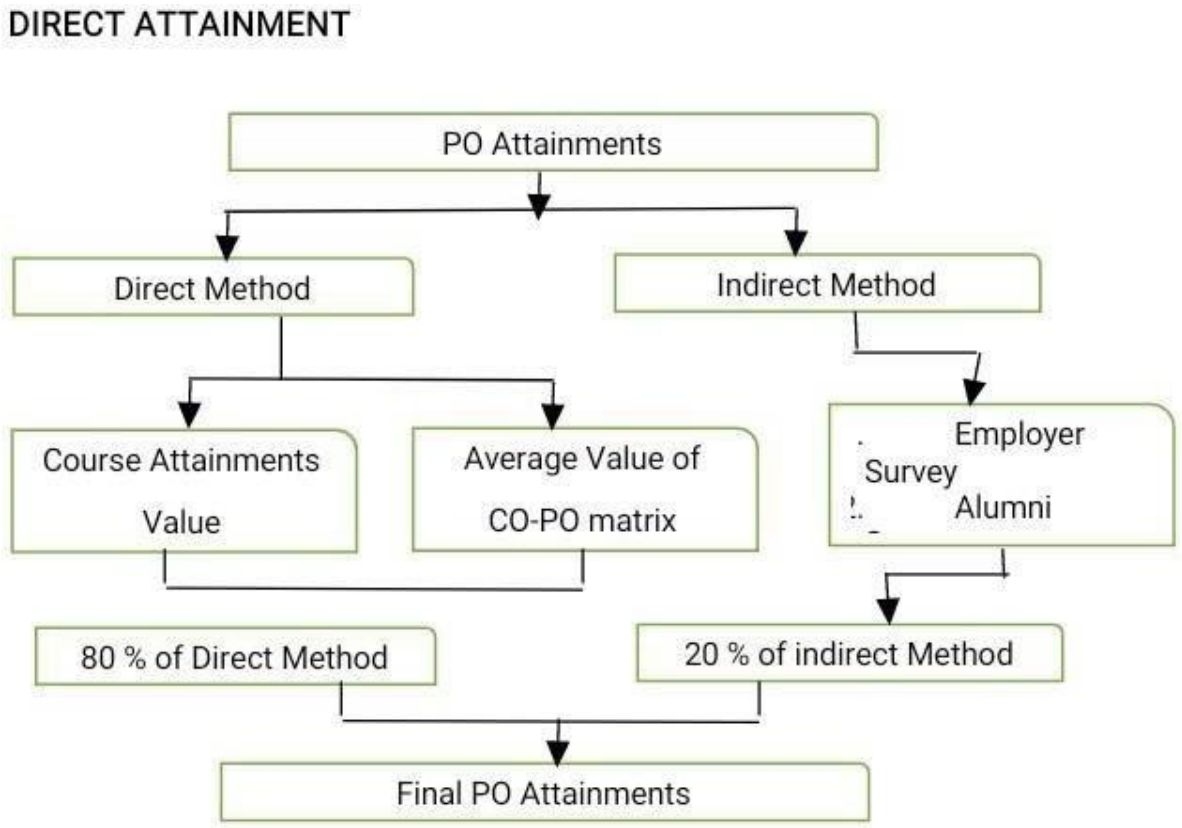


Fig 3.3.1 Flowchart of Program Outcomes

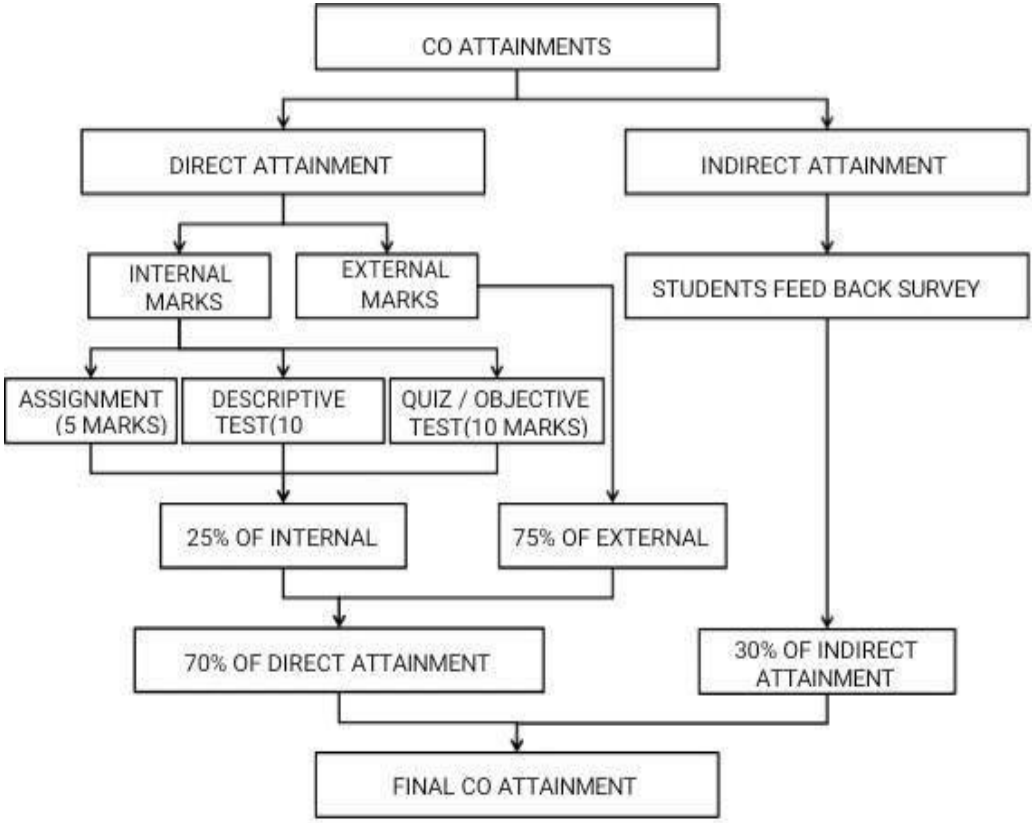


Fig 3.3.2 Flowchart of Program Specific Outcomes

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.

Th efollowing methods of assessment ar eidentified for assessing the Program Outcomes & Program specific outcomes.

LIST OF ASSESSMENT TOOLS AND PROCESS

Direct method:

i. Continuous Internal Evaluation (CIE) tests
ii. Semester End examinations
iii. Practical tests
iv. Project
v. Seminar Presentations

Indirect method (StakeHolders):

i. Employer Survey (IndustrySurvey)
ii. Alumni Survey
iii. Graduate Exit Survey

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

In Direct method, for each course CO attainmen isc alculated 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 stakeholders 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 graduat eemployedi n their workplace

Alumni Survey

Thesurveyasksalumnitoevaluatetheimpactoftheirundergraduateeducationontheircriticalthinking,problemsolving,andotherlearningout comes.GraduateExitsurvey

Thesurveyisconductedbythedepartmentfrom Studentswhoarefinallygraduatedandreadyfor joborhigher studies.Thissurveyconsistsoffour parts.

Part I is basedonstudentobservation(s)regardingeducationskills(allcourses deliveredbyfaculty aswellas technician,presentations,availability ofteachingandnon-teachingstaffoftheinstitute).

PartII Question(s) basedonProgramEducationalObjectiveslikestudentssatisfactionlevel.

PartIII: Question(s)basedonProgramOutcomesAssessmentlikeknowledgeattainedaftercompletionofprogram.PartIVisbasedonComment(s)ifanyforb etterimprovementoftheinstituteforfuture.

Provide results of evaluation of PO & PSO (40) **InstituteMarks:40.00**

Sno	Subject Code	Course code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	BS102MT	C111	Mathematics - I	2.55	2.55	1.88	1.20	1.80	1.20	1.20	1.20	1.20	1.80	1.65	1.88
2	BS104PH	C112	Engineering Physics	1.12	0.64	0.16	0.88	0.16	0.64	0.64	0.16	0.16	0.64	0.16	0.88
3	ES106EE	C113	Basic Electrical Engineering	0.56	0.56	0.56	0.56	0.56	0.50	0.50	0.09	0.56	0.36	0.45	0.77
4	ES154EE	C115	Basic Electrical Engineering Lab	1.41	1.41	1.07	1.41	1.41	1.24	1.24	0.23	1.41	0.90	1.13	1.91
5	BS251PH	C116	Engineering Physics Lab	1.91	2.25	1.91	2.25	0.23	0.23	2.25	0.23	0.23	0.23	1.91	0.23
6	ES156CE	C117	Engineering Graphics Lab	2.33	1.80	1.65	0.30	1.20	0.30	0.30	1.20	2.55	3.00	1.20	2.33
7	MC112CE	C121	Environmental Science	0.50	0.36	0.63	0.50	0.09	0.36	0.36	0.36	0.36	0.36	0.63	0.50
8	MC113PY	C122	Essence of Indian Traditional Knowledge	1.27	0.92	1.61	1.27	0.23	0.92	0.92	0.92	0.92	0.92	0.23	1.27
9	HS101EG	C123	English	0.92	1.27	0.92	1.61	1.27	0.23	0.92	0.92	0.23	0.92	0.92	0.23
10	BS103MT	C124	Mathematics- II	0.90	0.77	0.63	0.36	0.54	0.36	0.36	0.36	0.36	0.54	0.50	0.56
11	BS105CH	C125	Chemistry	1.27	1.27	1.84	0.92	1.61	1.96	1.78	0.92	0.92	0.23	0.92	1.15
12	ES107CS	C126	Programming for Problem Solving	1.39	1.78	1.39	1.56	1.56	1.34	0.89	1.22	1.22	0.89	1.22	0.89
13	HS151EG	C127	English Lab	1.74	1.83	1.92	1.79	1.57	1.79	1.90	1.75	1.65	2.01	1.74	1.83
14	BS153CH	C128	Chemistry Lab	1.20	1.50	3.00	1.20	1.20	1.20	1.20	0.30	1.20	0.30	0.30	1.20
15	ES155CS	C129	Programming for Problem Solving Lab	1.20	1.50	2.10	1.20	1.20	1.65	1.20	0.30	1.20	1.20	2.10	1.20
16	ES157ME	C1210	Workshop /Manufacturing lab	1.91	1.24	1.58	2.25	0.23	0.23	2.25	0.23	0.23	0.23	1.91	0.23
17	HS201EG	C211	Effective Technical Communication in English	1.24	1.12	1.12	1.12	1.36	0.88	1.12	0.16	0.88	0.88	1.12	1.24
18	HS202CM	C212	Finance and Accounting	1.50	1.65	1.88	2.10	1.50	2.10	1.20	1.65	2.33	1.88	2.78	1.65
19	BS207MT	C213	Mathematics- III	1.96	1.96	1.44	0.92	1.38	0.92	0.92	0.23	0.92	1.38	1.27	1.44
20	ES214EC	C214	Basic Electronics	1.61	0.92	0.23	1.27	0.23	0.92	0.92	0.23	0.23	0.92	0.23	1.27
21	ES216EC	C215	Digital Electronics	1.78	1.61	1.61	1.61	1.96	1.27	1.61	0.23	1.27	1.27	1.61	1.78
22	PC221IT	C216	Data Structures	2.55	2.10	1.65	2.10	0.30	0.30	2.55	1.20	2.10	1.65	2.10	2.55
23	PC222IT	C217	Mathematical Foundation of Information Technology	1.96	1.96	1.44	0.92	1.38	0.92	0.92	0.23	0.92	1.38	1.27	1.38

24	ES251EC	C218	Basic Electronics Lab	1.91	2.25	1.91	2.25	0.23	0.23	2.25	0.23	0.23	0.23	1.91	0.23
25	PC252IT	C219	Data Structures Lab	1.91	2.25	1.91	1.91	0.23	0.23	2.25	0.23	0.23	0.23	1.91	0.23
26	PC253IT	C2110	IT Workshop Lab	1.91	2.25	1.91	1.91	0.23	0.23	2.25	0.23	0.23	0.23	1.91	0.23
27	HS204ME	C221	Operation Research	2.55	2.325	2.1	2.1	1.2	1.2	1.2	1.2	1.5	1.5	1.2	1.875
28	BS206BZ	C222	Biology For Engineers	1.5	1.5	1.2	2.1	1.5	1.2	0.3	2.1	2.1	1.2	1.2	1.2
29	ES215EC	C223	Signals and Systems	0.8	0.64	0.16	1.12	1.12	0.64	0.64	0.64	0.8	0.8	0.64	1.12
30	PC231IT	C224	Java Programming	1.28	1.6	1.36	1.36	1.28	1.12	1.6	1.12	0.88	1.28	1.36	1.12
31	PC232IT	C225	Data Base System	1.24	1.24	1.12	1.12	1.12	0.88	0.64	0.16	1	0.76	1.12	1.24
32	PC233IT	C226	Computer Organization And Microprocessor	1.265	1.61	0.92	0.92	0.92	0.23	0.23	0.23	0.23	0.92	0.92	0.92
33	PC234IT	C227	Data Communication	1.38	1.15	1.61	1.61	1.38	1.09	1.38	1.84	1.38	1.61	1.27	1.78
34	PC261IT	C228	Microprocessor Lab	1.91	2.25	1.91	2.25	0.23	0.23	2.25	0.23	0.23	0.23	1.91	0.23
35	PC263CS	C229	Database System Lab	1.90	1.62	1.75	1.65	2.01	1.74	1.83	1.92	1.79	1.57	1.79	1.90
36	PC262IT	C2210	Java Programming Lab	1.91	2.25	1.91	2.25	0.23	0.23	2.25	0.23	0.23	0.23	1.91	0.23
37	CS501PC	C311	Formal Language & Automata Theory	1.37	0.88	1.09	0.88	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
38	CS502PC	C312	Software Engineering	1.44	1.01	0.79	1.01	0.79	0.79	0.14	1.01	0.58	0.14	0.86	1.11
39	IT503PC	C313	Data Communication Computer Networks	2.125	1.488	1.169	0.85	1.169	0.85	0.213	0.213	1.488	0.213	1.488	0.85
40	IT504PC	C314	Web Programming	0.688	0.43	0.688	0.275	0.636	0.069	0.275	0.688	0.344	0.069	0.275	0.43
41	IT511PE	C315	Biometrics	1.5	1.05	0.825	1.05	0.825	0.825	0.15	1.05	0.6	0.15	0.9	1.163
42	CS522PE	C316	Advanced Operating System	1.575	1.238	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.9	0.9	1.575
43	CS505PC	C317	Software Engineering Lab	1.24	1.58	1.58	1.58	0.90	1.58	0.90	0.23	2.25	2.25	1.58	0.90
44	IT506PC	C318	Computer Networks & Web Programming Lab	1.58	1.58	2.25	0.23	1.58	1.58	0.23	0.23	1.58	2.25	1.58	2.25
45	EN508HS	C319	Advanced Communication Skills Lab	2.25	2.25	0.23	2.25	0.23	2.25	2.25	0.23	2.25	2.25	1.58	1.58
46	IT601PC	C321	Introduction to Embedded System	1.531	1.531	1.203	1.203	1.531	0.875	1.531	0.219	0.219	1.203	0.219	1.203
47	IT602PC	C322	Principles of Compiler Construction	2.188	2.188	1.531	1.859	0.219	0.219	0.219	0.219	0.219	0.219	0.219	1.859
48	IT603PC	C323	Algorithm Design And Analysis	1.5	1.35	1.05	0.6	0.6	0.15	0.15	0.15	0.15	0.15	0.15	1.5
49	IT604PC	C324	Internet Of Things	1.169	1.238	0.963	0.55	0.55	0.55	0.138	0.138	0.138	0.138	0.756	1.375
50	CS615PE	C325	Software Testing Methodologies	0.756	0.55	0.138	0.55	0.963	0.138	0.963	0.55	0.55	0.963	0.55	0.55

51	CS605PC	C326	Disaster Preparedness & Planning Management	1.05	0.9	1.05	0.6	0.6	1.275	1.5	0.15	0.15	0.15	0.825	1.5
52	IT606PC	C328	Compiler Construction Lab	2.25	2.25	1.58	1.91	0.23	0.23	0.23	0.23	0.23	0.23	0.23	1.91
53	CS615PE	C329	Software Testing Methodologies Lab	1.58	1.58	1.24	1.24	1.13	1.58	0.90	0.23	0.23	1.58	1.24	1.58
54	IT605PC	C3210	Embedded System and Internet of Things Lab	2.25	1.58	1.58	1.91	1.58	0.90	0.23	0.23	0.90	1.24	1.24	1.91
55	CS701PC	C411	Data Mining	2.25	1.575	1.238	1.575	1.238	1.238	0.9	0.225	0.225	0.9	1.35	1.744
56	IT702PC	C412	Android Application Development	2.325	2.1	2.4	1.8	1.65	1.2	0.3	0.3	1.8	3	2.4	2.4
57	CS721PE	C413	Python Programming	0.525	0.525	0.638	0.413	0.638	0.075	0.075	0.075	0.075	0.075	0.581	0.3
58	CS734PE	C414	Software Process and Project Management	2.1	1.65	1.65	1.65	1.65	1.65	0.3	0.3	1.2	1.65	2.1	2.1
59	CS742PE	C415	Cloud Computing	3	2.1	1.65	2.1	1.65	1.65	0.3	0.3	0.3	1.2	1.8	2.325
60	IT703PC	C416	Android Application Development Lab	1.65	1.88	2.55	2.10	2.10	0.30	1.20	0.30	1.20	1.20	2.10	0.30
61	CS751PC	C417	Python Programming Lab	2.10	2.10	2.55	1.65	2.55	0.30	0.30	0.30	0.30	0.30	2.33	1.65
62	IT705PC	C418	Industry Oriented Mini Project	2.40	2.33	2.10	1.65	3.00	0.30	0.30	0.30	0.30	0.30	3.00	2.10
63	IT706PC	C419	Seminar	2.40	2.33	2.10	1.65	3.00	1.20	1.20	1.20	3.00	3.00	3.00	2.10
64	CS031OE	C421	Environmental Impact Assessment	3	2.7	2.1	1.2	1.2	0.3	0.3	0.3	0.3	0.3	0.3	3
65	CS862PE	C422	Modern Software Engineering	3	2.7	2.1	1.2	1.2	0.3	0.3	0.3	0.3	0.3	0.3	3
66	IT863PE	C423	Human Computer Interaction	3	1.65	2.1	1.2	1.2	1.2	1.2	1.2	1.65	1.2	2.1	3
67	IT801PC	C424	Major Project	1.74	1.58	1.74	1.41	2.08	1.24	1.24	0.23	0.23	2.08	2.08	1.58

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO 5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	1.69	1.57	1.43	1.34	1.07	0.83	0.96	0.53	0.85	0.96	1.26	1.33
Direct Attainment	1.63	1.50	1.47	1.30	1.25	1.05	1.22	1.02	1.21	1.28	1.40	1.45
In Direct Attainment	1.93	1.87	1.79	1.74	1.58	1.45	1.53	1.29	1.46	1.52	1.69	1.73

PSO Attainment

Sno	Course Title	Subject Code	Course code	pso1	pso2
1	Mathematics - I	BS102MT	C111	1.20	2.10
2	Engineering Physics	BS104PH	C112	0.64	0.64
3	Basic Electrical Engineering	ES106EE	C113	0.36	0.36
4	Basic Electrical Engineering Lab	ES154EE	C115	0.90	0.23
5	Engineering Physics Lab	BS251PH	C116	2.25	1.58
6	Engineering Graphics Lab	ES156CE	C117	1.88	1.65
7	Environmental Science	MC112CE	C121	0.36	0.36
8	Essence of Indian Traditional Knowledge	MC113PY	C122	0.92	0.92
9	English	HS101EG	C123	1.27	1.27
10	Mathematics- II	BS103MT	C124	0.36	0.63
11	Chemistry	BS105CH	C125	0.23	0.92
12	Programming for Problem Solving	ES107CS	C126	1.56	1.39
13	English Lab	HS151EG	C127	1.92	1.57
14	Chemistry Lab	BS153CH	C128	1.20	1.20
15	Programming for Problem Solving Lab	ES155CS	C129	1.20	1.20
16	Workshop /Manufacturing lab	ES157ME	C1210	2.03	1.58
17	Effective Technical Communication in English	HS201EG	C211	1.12	0.88
18	Finance and Accounting	HS202CM	C212	1.43	1.80
19	Mathematics- III	BS207MT	C213	0.92	1.61

20	Basic Electronics	ES214EC	C214	0.92	0.92
21	Digital Electronics	ES216EC	C215	1.61	1.27
22	Data Structures	PC221IT	C216	2.10	2.10
23	Mathematical Foundation of Information Technology	PC222IT	C217	0.92	1.61
24	Basic Electronics Lab	ES251EC	C218	2.25	1.58
25	Data Structures Lab	PC252IT	C219	1.74	1.58
26	IT Workshop Lab	PC253IT	C2110	1.74	1.58
27	Operation Research	HS204ME	C221	1.65	1.5
28	Biology For Engineers	BS206BZ	C222	1.5	1.65
29	Signals and Systems	ES215EC	C223	0.8	0.88
30	Java Programming	PC231IT	C224	1.6	1.12
31	Data Base System	PC232IT	C225	1.12	0.88
32	Computer Organization And Microprocessor	PC233IT	C226	1.265	1.61
33	Data Communication	PC234IT	C227	1.61	1.27
34	Microprocessor Lab	PC261IT	C228	2.25	1.58
35	Database System Lab	PC263CS	C229	1.48	1.83
36	Java Programming Lab	PC262IT	C2210	2.25	1.58
37	Formal Language & Automata Theory	CS501PC	C311	1.09	2.19
38	Software Engineering	CS502PC	C312	0.72	1.44
39	Data Communication Computer Networks	IT503PC	C313	0.85	0.85
40	Web Programming	IT504PC	C314	0.344	0.688
41	Biometrics	IT511PE	C315	0.75	1.5
42	Advanced Operating System	CS522PE	C316	0.9	1.125
43	Software Engineering Lab	CS505PC	C317	1.58	0.90
44	Computer Networks & Web Programming Lab	IT506PC	C318	1.80	2.08
45	Advanced Communication Skills Lab	EN508HS	C319	2.25	1.24
46	Introduction to Embedded System	IT601PC	C321	1.203	1.203
47	Principles of Compiler Construction	IT602PC	C322	0.219	1.531

48	Algorithm Design And Analysis	IT603PC	C323	0.9	1.05
49	Internet Of Things	IT604PC	C324	0.825	0.963
50	Software Testing Methodologies	CS615PE	C325	0.963	0.963
51	Disaster Preparedness & Planning Management	CS605PC	C326	0.9	1.05
52	Compiler Construction Lab	IT606PC	C328	0.90	1.58
53	Software Testing Methodologies Lab	CS615PE	C329	1.35	1.24
54	Embedded System and Internet of Things Lab	IT605PC	C3210	1.24	1.58
55	Data Mining	CS701PC	C411	1.069	1.406
56	Android Application Development	IT702PC	C412	1.425	2.1
57	Python Programming	CS721PE	C413	0.638	0.3
58	Software Process and Project Management	CS734PE	C414	1.65	1.5
59	Cloud Computing	CS742PE	C415	1.425	1.875
60	Android Application Development Lab	IT703PC	C416	2.10	1.20
61	Python Programming Lab	CS751PC	C417	2.55	1.20
62	Industry Oriented Mini Project	IT705PC	C418	3.00	2.78
63	Seminar	IT706PC	C419	2.78	2.78
64	Environmental Impact Assessment	CS031OE	C421	1.8	2.1
65	Modern Software Engineering	CS862PE	C422	1.8	2.1
66	Human Computer Interaction	IT863PE	C423	1.8	2.1
67	Major Project	IT801PC	C424	2.25	2.08

PSOAttainment Level

Course	PSO1	PSO2
COAttainment	1.367	1.389
Direct Attainment	1.3106603	1.315076
InDirectAttainment	1.749	1.761

4 STUDENTS' PERFORMANCE (150) **Total Marks 98.66**:

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	**2021-22(CAY)**	**2020-2021(CAYm1)**	**2019-20 (CAYm2)**	**2018-19 (CAYm3)**	**2017-18(CAYm2)**	**2016-17(CAYm3)**	**2015-16(CAYm4)**	**2014-15 (CAYm5)**	**2013-14 (CAYm6)**
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 otherprograms/ institutions plus No. of students migrated to this program (N1)	**60**	**57**	58	59	57	52	48	1	22
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	7	7	4	0	0	0	0	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)	60	64	65	63	57	52	48	1	22

Table 4.2

Year of entry	**Total No of students admitted in theprogram (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 anysemester/ year ofstudy)**			
		I year	**II year**	**III year**	**IV year**
2021-2020(CAY)	60	0	0	0	0
2020-21(CAYm1)	58	7	0	0	0
2019-20 (CAYm2)	58	17	13	0	0
2018-19 (CAYm3)	63	4	2	2	0
2017-18 (CAYm4)	57	10	8	1	1

2016-17 (LYG)	52	10	8	5	5
2015-16 (LYG1)	48	8	5	5	5
2014-15 (LYGm2)	1	0	0	0	0
2013-14 (LYGm3)	22	6	5	5	5

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)	60	0	0	0	0
2020-21(CAYm1)	58	57	0	0	0
2019-20 (CAYm2)	58	64	64	0	0
2018-19 (CAYm3)	63	42	42	42	0
2017-18 (LAY)	57	34	31	23	14
2016-17 (LYGm1)	52	32	21	21	15
2015-16 (LYGm2)	48	24	19	17	15
2014-15 (LYGm3)	1	1	1	1	1
2013-14 (LYGm4)	22	15	10	9	9

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

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2021-2020(CAY)	**60**	**60**	**100.0**
2020-2021(CAYm1)	60	57	95.00
2019-20 (CAYm2)	60	58	96.67
2018-19 (CAYm3)	60	59	98.33
2017-18 (CAYm4)	60	57	95.00

Average [(ER1 + ER2 + ER3) / 3] : 97.2

Assessment : 20.00

4.2 Success Rate in the stipulated period of the program (40) **Total Marks 11.15**

4.2.2Success rate without backlogs in any semester / year of study (25) **Institute Marks : 2.75**

Item	Latest Year of Graduation, LYG (2017-18)	Latest Year of Graduation, LYG (2016-17)	Latest Year of Graduation, LYG (2015-16)	Latest Year of Graduation minus 1, LYGm1(2014-15)
X Number of students admitted in the corresponding First year + admittedin 2nd year via lateral entry and seperateddivision, if applicable	57	52.0	48.00	1.00
Y Number of students who have graduated without backlogs in the stipulatedperiod	6	6.00	5.00	1.00
Success Index [SI = Y / X]	0.11	0.12	0.10	1.00

Average SI [(SI1 + SI2 + SI3) / 3] : 0.11

Assessment [25 * Average SI] : 2.75

4.2.2Sucess rate in stipulated period (15)

Institute Marks : 8.40

Item	Latest Year of Graduation, LYG (2017-18)	Latest Year of Graduation, LYG (2016-17)	Latest Year of Graduation, LYG (2015-16)	Latest Year of Graduation minus 1, LYGm1(2014-15)
X Number of students admitted in the corresponding First year + admittedin 2nd year via lateral entry and seperateddivision, if applicable	**57**	52	48.00	1.00
Y Number of students who have graduated in the stipulated period	14	15	15.00	1.00
Success Index [SI = Y / X]	0.24	0.28	0.31	1.00

Average SI[(SI1 + SI2 + SI3) / 3]: 0.27

Assessment [15 * Average SI] : 4.05

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 7.98

Institute Marks : 7.98

Academic Performance	CAYm2 (2018-19)	CAYm1 (2017-18)	LYG(2016-17)	LYG m1(2015-16)
Mean of CGPA or mean percentage of all successful students(X)	4.32	4.23	4.76	4.93
Total number of successful students(Y)	42	23	17	17.00
Totalnumber of students appeared in the examination(Z)	42	23	17	17.00
API [X*(Y/Z)]:	4.32	4.23	4.76	4.93

Average API [(AP1 + AP2 + AP3)/3] : 4.43

Assessment [1.5 * AverageAPI] :6.65

4.4 Academic Performance in Second Year (15)

Total Marks 5.00

Institute Marks : 5.00

Academic Performance	CAYm1 (2019-20)	CAYm2 (2018-19)	CAYm3(2017-18)	LYG (2016-17)	LYGm1 (2015-16)
Mean of CGPA or mean percentage of all successful students(X)	4.21	3.28	3.63	3.90	3.50
Total number of successful students (Y)	64	42.00	31.00	21.00	19.00
Total number of students appeared in the examination (Z)	64	42.00	31.00	21.00	24.00
API [X * (Y/Z)]	4.21	3.28	3.63	3.90	2.77

Average API [(AP1 + AP2 + AP3)/3] : 3.70

Assessment [1.5 * AverageAPI] : 5.56

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 34.53

Institute Marks : 34.53

Item	LYG (2017-18)	LYG m1(2016-17)	LYGm2 (2015-16)	LYGm2 (2014-15)
Total No of Final Year Students(N)	23	17	17.00	1.00
No of students placed in the companies or government sector(X)	14	10.00	10.00	1.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	2	2	2	0.00
No of students turned entrepreneur in engineering/technology (Z)	3	1	0.00	0.00
x + y + z =	19	13	12.00	1.00
Placement Index [(X+Y+Z)/N] :	0.82	0.76	0.71	1.00

Average Placement [(P1 + P2 + P3)/3] :0.76
Assessment [40 * Average Placement] : 30.53

Program Name:

Assessment Year Name: CAY

S.No	Roll Number	Candidate Name	Branch	Company	Reference Number
1	17RT1A1211	MIR JAFFER ALI	IT	Euthissa Care Technology Pvt Ltd	ECT/NSAKCET/M753
2	17RT1A1205	AHMED MUJTABA SIDDIQUE	IT	Pie Infocomm	PIE/JSD/NSAK1005
3	17RT1A1218	MOHAMMED MOHIUDDIN AHMED	IT	Pie Infocomm	PIE/JSD/NSAK1018
4	17RT1A1228	Mohd Faiz	IT	Path Creators Solutions Pvt. Ltd	PCSTECH/HYD0628
5	17RT1A1242	Samreen Sultana	IT	Path Creators Solutions Pvt. Ltd	PCSTECH/HYD0642
6	17RT1A1245	Syed Ahmed Ali	IT	Unisys	HR/UNISYS/45/2021
7	17RT1A1224	MOHAMMED AFFAAN HYDER KHAN	IT	Unisys	HR/UNISYS/24/2022
8	17RT1A1240	SAIRA ZAINA	IT	Verinite Technologies Pvt Ltd	VTPL/SA2021/1140
9	17RT1A1255	Syeda Tamanna Fatima	IT	Demand Farm	SA/NSAKCET55/2021
10	17RT1A1236	Mohd Parvez Khan	IT	Verinite Technologies Pvt Ltd	VTPL/SA2021/1141

11	17RT1A1239	Mohd Zuber Uddin	IT	Path Creators Solutions Pvt. Ltd	PCSTECH/HYD0646
12	17RT1A1210	Md Arbaz	IT	Demand Farm	SA/NSAKCET46/2021
13	17RT1A1244	Shaik Hafeez	IT	Pie Infocomm	PIE/JSD/NSAK1026
14	17RT1A1201	Abdul Musa Khan	IT	Unisys	HR/UNISYS/01/2021

Program Name:

Assessment Year Name: CAYm1

S.No	Roll Number	CandidateName	Branch	Company	Reference Number
1	16RT1A1207	FAHAD MOINUDDIN	IT	nQuantum	NQSD/QT207/2020
2	16RT1A1208	Fatima Banu	IT	nQuantum	NQSD/QT208/2020
3	16RT1A1212	Md yousuf	IT	nQuantum	NQSD/QT212/2020
4	16RT1A1235	Sana Shaheen	IT	nQuantum	NQSD/QT235/2020
5	16RT1A1242	SYED NOOR TAVEERALI	IT	nQuantum	NQSD/QT242/2020
6	16RT1A1250	SYEDAALINA SHIFA	IT	nQuantum	NQSD/QT250/2020
7	16RT1A1206	Asma Anjum	IT	Armentum	ARMKC/JWEBL16/2020

8	16RT1A1225	Mohd Muneef Affani	IT	Armentum	ARMKC/JWEBL18/2020
9	16RT1A1238	Syed FarhanAhmed	IT	Magneq Software	Trainee/MS0005/2021
10	16RT1A1251	Zobia Fatima Farhat	IT	EuthissaCare	ECT/NSAKCET/IT738

Program Name :

Assessment Year Name : CAYm2

S.No	Student Name	EnrollmentNo	Employee Name	Appointment No
1	ANS FAROOQUI	15RT1A1205	ANS FAROOQUI	C4I/TSEOL0008/2019
2	HUSSAIN BIN FAZIL SAADI	15RT1A1211	HUSSAIN BIN FAZIL SAADI	C4I/TSEOL0009/2019
3	MIRZA MUJTABA ALIBAIG	15RT1A1218	MIRZA MUJTABA ALIBAIG	C4I/TSEOL0010/2019
4	SAYEEDA HUMAIRA	15RT1A1236	SAYEEDA HUMAIRA	C4I/TSEOL0011/2019
5	MD ADNAN ALAM	15RT1A1214	MD ADNAN ALAM	CS/OL033/2019
6	MD REHAN ZAFAR	15RT1A1216	MD REHAN ZAFAR	CS/OL034/2019
7	SYED FARAAZ	15RT1A1242	SYED FARAAZ	CS/OL035/2019

8	AYESHA SULTANA	15RT1A1207	AYESHA SULTANA	CS/OL036/2019
9	MD KHAIRUDDIN	15RT1A1215	MD KHAIRUDDIN	ITSC/GETOL1011/2019
10	SYED MUJTABAHUSSAIN RAZVI	15RT1A1244	SYED MUJTABAHUSSAIN RAZVI	ITSC/GETOL1012/2019

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ZAINAB FATIMA	13RT1A1222	ZAINAB FATIMA	CSOL21/2018

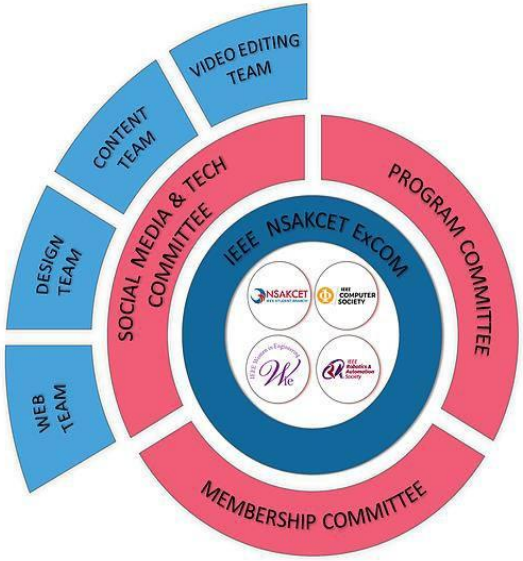
Assessment Year Name : CAYm4

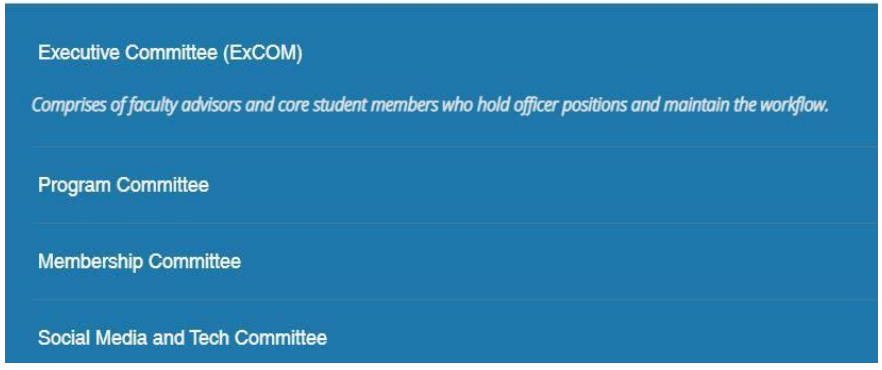
S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	SHAREEFUDDINSIDDIQUI MOHD	13RT1A1216	SHAREEFUDDINSIDDIQUI MOHD	SKH/ASDOL/10012017
2	SYED WAHEEDUDDINHUSSAINI	13RT1A1219	SYED WAHEEDUDDINHUSSAINI	SKH/ASDOL/10022017
3	ALI SALEH ZUBAIDI	13RT1A1201	ALI SALEH ZUBAIDI	SKH/ASDOL/10032017
4	MOHAMMED KHAJAMOINUDDIN	13RT1A1206	MOHAMMED KHAJAMOINUDDIN	GS/WD0053/2017
5	SYEDA ZAIBUNNISA	13RT1A1220	SYEDA ZAIBUNNISA	GS/WD00554/2017
6	MOHD SHOEB JIBRANHUSSAIN	13RT1A1210	MOHD SHOEB JIBRANHUSSAIN	GS/WD0055/2017
7	NOORAIN SIDDIQUA	13RT1A1213	NOORAIN SIDDIQUA	GS/WD0056/2017
8	SYED MOOSA KALEEM	13RT1A1218	SYED MOOSA KALEEM	GS/WD0057/2017
9	MOHD ABDUL FAISAL	13RT1A1208	MOHD ABDUL FAISAL	C4I/TDOL1102/2017

4.6 Professional Activities (20) **Total Marks 20.00**

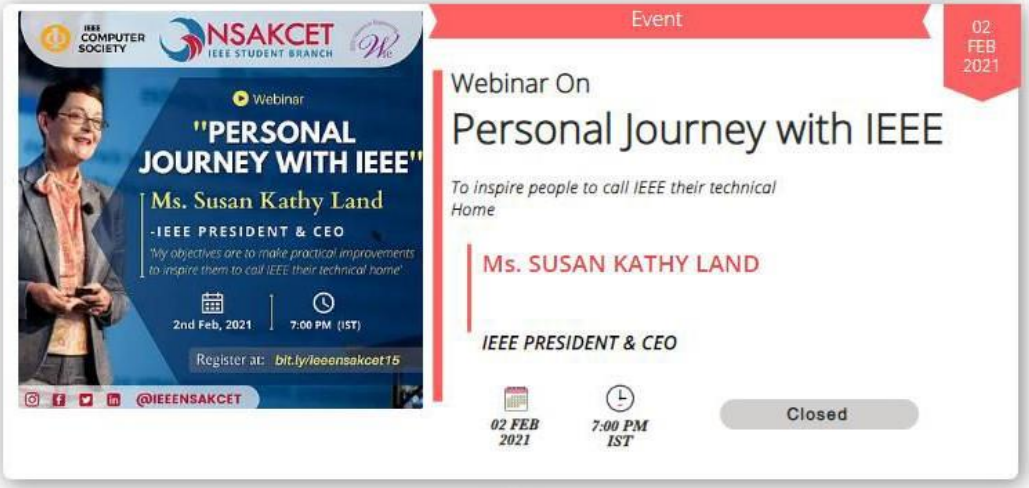
4.6.1 Professional societies/ chapters and organizing engineering events (5) **Institute Marks : 5.00**

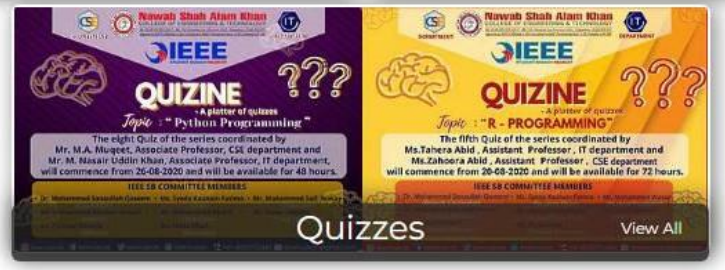
IEEE Student Branch of Nawab Shah Alam Khan College of Engineering and Technology was established in March 2020. It is a student community that strives to inform, learn, entertain, and inspire action through the events and experiences we create. It promotes student empowerment, develop professional skills,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





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 Information Technology

List of Online events conducted by the department during the Pandemic during 2020-21

S.NO	NAME OF THE EVENT	DATE & YEAR
1	Webinar on Digital Marketing As A Career	04 Jun 2020
2	Webinar on Gender Barriers and Leadership	12 Jun 2020
3	Webinar on Insights on Data Science	14 Jun 2020
4	Webinar on Define Success for yourself and achieve it with HighPerformance Habits	20 Jun 2020
5	Webinar on How to start a career in cyber security and awareness oncyber crimes	25 Jun 2020
6	Webinar on Data Science Applications and Opportunities	27 Jun 2020
7	Webinar on Insights on Blockchain and Career Opportunities	01 Jul 2020
8	Webinar on An IoT Forecast That's Sunny And Clear (No Clouds)	06 Jul 2020
9	QUIZINE 2020 - A Platter of Quizzes | E-Quiz#1 on "DATASTRUCTURES"	08 Jul 2020
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	29 Jul 2020

	TECHNOLOGIES & CYBER SECURITY"	
15	Webinar on Mechanical Engineering Challenges for the 21st Century	05 Aug 2020
16	EMERGING TRENDS IN COMPUTER SCIENCE AND APPLICATIONS	05 TO 09 AUGUST 2020
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 "PYTHONPROGRAMMING"	26 Aug 2020
23	ARTIFICIAL intelligence USING PYTHON	14 TO 19 SEPTEMBER 2020
24	Webinar on Extending your Reality - A conversation around XR and entrepreneurship	27 Sep 2020
25	WEB DEVELOPMENT	13 DECEMBER 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
30	ISRO/NRSC for INDUSTRIAL VISIT	05 jan 2022
31	IT Day	06 Jan 2022
31	Guest lecture on SAP & Next generation technology	07 jan 2022
32	Invited talk by Dr. Mohammed Abdul Hameed	07 jan 2022

List of event conducted in college

S.NO	Name of the Event	Date	Year
1	Techno vision 2020	26-02-2020	2020
2	Career Guidance Workshop	14-02-2020	2020
3	Graduation day	28-11-2019	2019
4	Guest Lecture On “Machine Learning“	24-09-2019	2019
5	One day workshop on *Data science* using Machine learning and Python	06-08-2019	2019
6	CRT Program	23-07-2019	2019
7	Big Data Analytics	13-03-2019	2019
8	Techno Fest	18-02-2019	2019
9	Digital Currencies	10-01-2019	2019
10	Employability to Deplorability	05-10-2018	2018
11	C Programming	15-02-2018 To 15-03-2018	2018
12	Linux, Python and Free Software	27-07-2018 to 28-07-2018	2018
13	Ascent of AI in the Innovation	02-07-2018	
14	Guest Lecture On Database Management Systems	22-02-2018	2018
15	Fundamental Of Android AAP development	16-10-2017 To 17-1-2017	2017
16	IT WORKSHOP	07-03-2017 To 07-04-2017	2017
17	Google Adwords & Digital Marketing	16-02-2017	2017
18	C Programing	3-02-2017 To 3-03-2017	2017
19	2-Days workshop on 'Android Development'	10/09/ 16 to 11/9/16	2016
20	Adobe Device Days (Mobile Application Workshop)	24/1/2014 to 25/1/2014	2014
21	Cyber Security Workshop	10/9/2013 to 11/9/2013	2013

4.6.2 Publication of technical magazines, newsletters, etc. (5) Institute Marks : 5.00


SEPTEMBER
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


Tech Diaries
September
2017


Tech Diaries
September
2017
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 | ECET Code : NAWB
Nawab Shah Alam Khan
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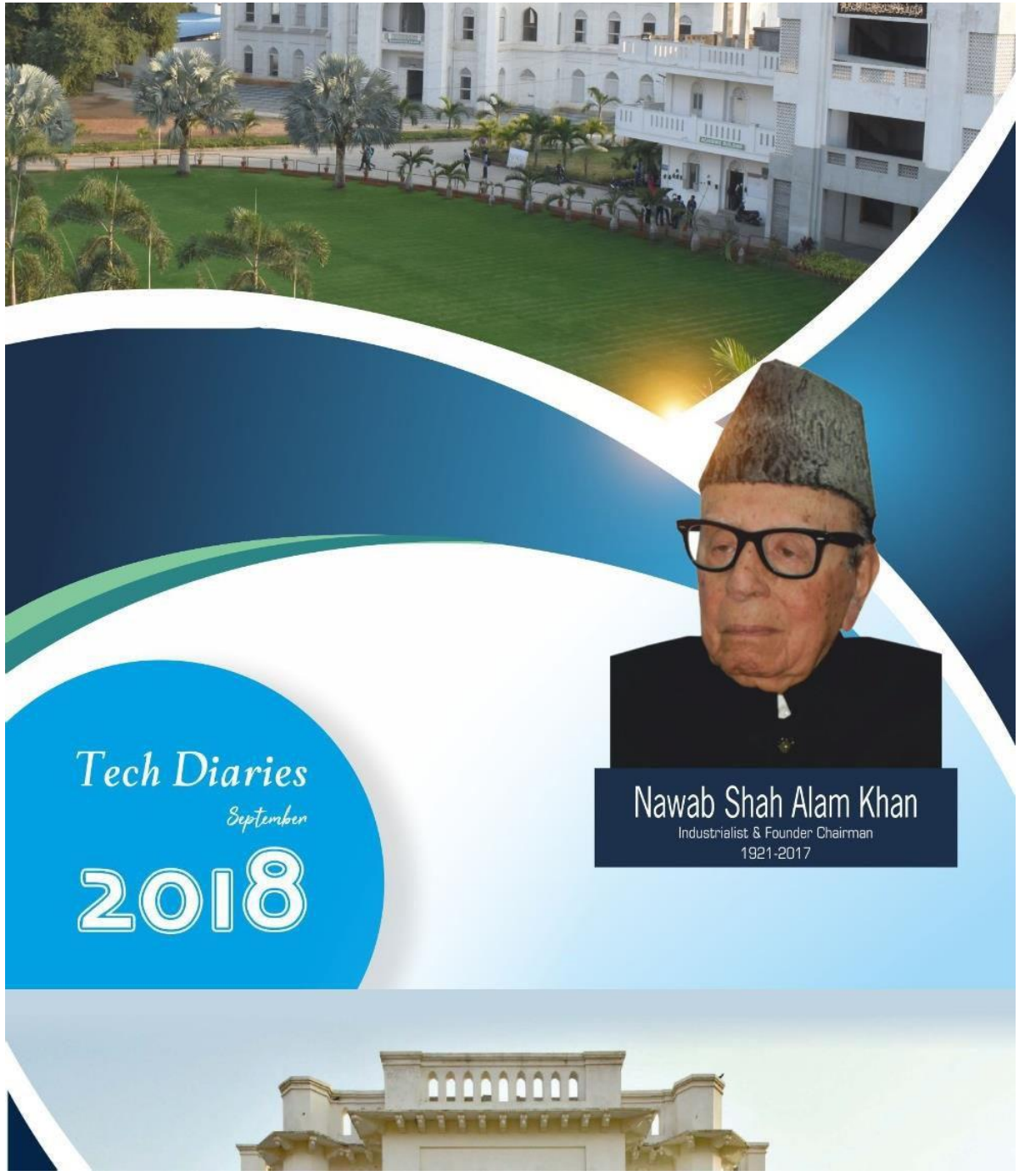
Tech Diaries
September
2018
Nawab Shah Alam Khan
Industrialist & Founder Chairman
1921-2017


Tech Diaries
September
2018
Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE | Permitted by Govt. of Telangana | Affiliated to JNTUH
COURSES OFFERED
B. Tech
CE - Civil Engineering
ME - Mechanical Engineering
IT - Information Technology
CSE - Computer Science & Engineering
EEE - Electrical & Electronics Engineering
ECE - Electronics & Communication Engineering
M. Tech
M. Tech (SE) - Structural Engineering
M. Tech (CSE) - Computer Science Engineering
M. Tech (HVAC) - Heating, Ventilation & Air Conditioning
M. Tech (ECE) - Embedded Systems
Polytechnic
Civil Engineering
Mechanical Engineering
Electrical & Electronics Engineering
Electronics & Communication Engineering
EAMCET Code : NAWB | PGECET Code : NAWB1 | POLYCET Code : NAWB | ECET Code : NAWB

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

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 &

TECH DIARIES 2019 SEPTEMBER

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

Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY
Affiliated to OU | Approved by AICTE | Accredited by NAAC | Permitted by Govt. of TS | Included in 2F UGC | Registered with TASK | Cisco Networking Academy

Department of Information Technology

S.NO	Name of the Participant	YEAR	Event
1	Mohd Shoaib	30th Nov 2021	Participated in Jupay Hiring Challenge-Think Big with Functional Programming Organized by Juspay
2	Mohd Idrees	17th July 2020	The complete guide to CompTIA A+ certification from Eduonix
3	Mohd Idrees	29th May 2020	Online course Cisco CCNP Enterprise(ENARSI +ENCOR)traning
4	Saira Zaina	3rd July 2020	Personality & Leadership For Students
5	Saira Zaina	5th July 2020	National Level Computer Science Quiz Series 2.0 In Web Technology
6	Saira Zaina	7th July 2020	National Level Computer Science Quiz Series 2.0 In Computer Graphics
7	Saira Zaina	14th july 2020	Industry Expectations From Engineers - An International Scenario
8	Saira Zaina	26th July 2020	Cloud Computing And Migration
9	Syed Shah Ghouse Mohiuddin Quadri	21st to 23rd JULY 2020	“Image Processing Toolbox In Scilab”
10	Syed Shah Ghouse Mohiuddin Quadri	29-06-2020	National Level Webinar On “Creativity” Jointly Organized By Ek Bharat Shrestha Bharat (EBSB) Club And JCI Salem Super Kings
11	Syed Shah Ghouse Mohiuddin Quadri	1st September 2020	Detect,Defend And Remediate: A 360 Degree View Of Cyber Security
11	Syed Shah Ghouse Mohiuddin Quadri	4th July, 2020	“Robotics Process Automation”
12	Syed Shah Ghouse Mohiuddin Quadri	28th June 2020.	Robotic Process Automation(RPA), Organised By ACE,
13	Syed Shah Ghouse Mohiuddin Quadri	1st July 2020	MICROSOFT TECHNOLOGIES - Dot Net,SQL,SSIS,SSRS, FX Alumni Association

			Of Francis Xavier Engineering College, Tirunelveli, Tamilnadu
14	Syed Shah Ghouse Mohiuddin Quadri	3rd July 2020.	"Mobile Application Development – Ios Programming Languages - Swift"
15	Syed Shah Ghouse Mohiuddin Quadri	2nd July 2020	"Challenges In Image Quality Assessment Techniques", Pes Institute Of Technology & Management, Shivamogga
16	Syed Shah Ghouse Mohiuddin Quadri	27th July 2020	World Largest Hands - On Work Shop On Dart Programming Language Organized By Mechanical Engineering Department Of Newton's Institute Of Science And Technology In Association With Brainovision Solutions India
17	Syed Shah Ghouse Mohiuddin Quadri	25th July 2020	Virtual Power Seminar On Big Data, CMR Engineering College In Association With ICT Academy Powered By Sky Campus.
18	Syed Shah Ghouse Mohiuddin Quadri	4th July 2020	Webinar On "AWS And Devops", Francis Xavier Engineering College, Tirunelveli
19	Syed Shah Ghouse Mohiuddin Quadri	27th June 2020.	One Day Webinar On "Changing Landscape Of Employment – Post Pandemic COVID 19", St. Joseph's Institute Of Technology
20	Syed Shah Ghouse Mohiuddin Quadri	26th June-2020	International Level Technical Workshop On "Angular JS To Develop Web Apps Faster", CMR Engineering College
21	Syed Shah Ghouse Mohiuddin Quadri	25th July 2020	International Webinar On Introduction To SAS
22	Syed Affan	5th may 2020	Java Script For Beginners
23	Syed Affan	9th may 2020	HTML,CSS & Java Script-Certification Course For Beginners
24	Mohammed Mohsin	2 weeks	Learn To Code For The Web University Of Leeds And Institute Of Coding
25	Mohammed Mohsin	21st May 2020	Introduction To Flutter Development Using Dart
26	Mohammed Mohsin	17th June 2020	Cloud Computing Basics (Cloud 101)
27	Mohammed Mohsin	6th May 2020	Getting Started With AWS Machine Learning
28	Mohammed Mohsin	14th June 2020	Introduction To Relational Database And SQL
29	Mohammed Munawar Ali	26th June 2020	International Level Technical Workshop On "Angular JS To Develop Web Apps Faster"
30	Mohammed Munawar Ali	13th July 2002	Online Quiz On "Basics Of JAVA Programming"
31	Mohammed Munawar Ali	11th June 2020	Webinar On Skill Development By Brainovision

32	Mohammed Munawar Ali	29-06-2020	National Level Webinar On “Creativity” Jointly Organized By Ek Bharat Shrestha Bharat (EBSB) Club And JCI Salem Super Kings
33	Mohammed Waizullah Siddiqui	3rd July 2020	One Day Webinar On :Personality & Leadership For Students
34	Mohammed Waizullah Siddiqui	7th December 2020	E-Quiz On “Microsoft Excel Knowledge Carnival”
35	Mohammed Waizullah Siddiqui		Quiz On Cyber Bullying
36	Mohammed Waizullah Siddiqui	16th June 2020	National Level Online Quiz On Knowledge Based Skill Test For Computer Professional-1
37	Mohammed Waizullah Siddiqui	15th to 20th June 2020	Latest Trends And Challenges In IT Industry
38	Mohammed Waizullah Siddiqui	27th July 2020	World’s Largest Hands-On Workshop On Dart Programming Language
39	Mohammed Taj Mohtashim	12th June 2020	Webinar On Gender Barriers & Leadership
40	Mohammed Omer	17 June,2020	Webinar On “Natural Language Processing”
41	Mohammed Omer	26th July 2020.	Introductory Course To CLOUD COMPUTING AND MIGRATION
42	Mohammed Omer	6th December 2020	Cloud Computing Quiz “
43	Mohammed Omer	29 June 2020	National Level Webinar On “Creativity”
44	Syed Omer	30th Nov to 29th Dec	Course In CCNA+ CISCO Security
45	Sameera Sultana	27/07/2020	World Largest Hands - On Work Shop On Dart Programming Language
46	Sana Tahseen	26th June 2020.	National Level E-Quiz On "Programming In C"
47	Syed Tanzeel Uddin	27th July 2020	One Day National Level FDP On “Information Security And Data Privacy Awareness”
48	Syed Tanzeel Uddin	11th June 2020	Webinar On Skill Development
49	Syed Tanzeel Uddin	14th Aug 2020	Online Webinar On Data Science Learnathon: From Raw Data To Deployment
50	Syed Tanzeel Uddin	16th June 2020	Webinar On Patenting Your Innovations
51	Syed Tanzeel Uddin	3rd July 2020.	The Webinar On “Mobile Application Development - IOS Programming Languages - SWIFT”
52	Syed Tanzeel Uddin	30th June 2020	Webinar On ‘Impact Of Corona And Lockdown On Different Sectors Of The Economy’
53	Syed Tanzeel Uddin	27th June 2020.	One Day Webinar On “Changing Landscape Of Employment – Post Pandemic COVID 19”,

54	Syed Tanzeel Uddin	14th August 2020.	Webinar On “Smart Contracts In Blockchain”
55	Syed Tanzeel Uddin	04-07-2020	Webinar On "AWS And Devops"
56	Syed Tanzeel Uddin	15th JULY 2020 to 17th JULY 2020	3 Days National Level Faculty Development Programme On “Recent Trends In Computer Science : Context Of AI, Cognitive Computing And Block Chain”
57	Syed Tanzeel Uddin	2nd July 2020	National Webinar On "Cyber Attacks And Security Measures"
58	Syed Tanzeel Uddin	01-07-2020.	Webinar On MICROSOFT TECHNOLOGIES - Dot Net,SQL,SSIS,SSRS
59	Syed Tanzeel Uddin	3rd July 2020	Webinar On “Mobile Application Development - IOS Programming Languages - SWIFT”
60	Syed Tanzeel Uddin	04-07-2020	Webinar On Real Time Operating Systems
61	Syed Tanzeel Uddin	26th July 2020	Introductory Course To CLOUD COMPUTING AND MIGRATION
62	Syed Tanzeel Uddin	1st July 2020	Webinar On “ Data Science & Its Applications
63	Syed Tanzeel Uddin	25th July 2020	Webinar On “IT Starter Pack”
64	Syed Tanzeel Uddin	8th Aug 2020	IT QUIZ On Computer Knowledge
65	Syed Tanzeel Uddin		Online Quiz On “Fundamentals Of Computer Science”.
66	Syed Tanzeel Uddin	28-7-2020	Webinar On “Tensorflow 2.0”
67	Syed Tanzeel Uddin	26th and 27th June 2020.	A Two Days International Webinar On 5G-Technologies
68	Syed Tanzeel Uddin	29-06-2020	National Level Webinar On "Creativity" Jointly Organized By EBSB Club And JCI Salem Super Kings
69	Syed Tanzeel Uddin	26th June-2020	International Level Technical Workshop On “Angular JS To Develop Web Apps Faster”
70	Syed Tanzeel Uddin	1st sep 2020	Detect,Defend And Remediate: A 360 Degree View Of Cyber
71	Syed Tanzeel Uddin	25th July 2020	International Webinar On Introduction To SAS
72	Syed Tanzeel Uddin	01 st July, 2020.	Webinar ‘DEEP LEARNING’
73	Syed Tanzeel Uddin	21st to 23rd JULY 2020	Student Development Program On “Image Processing Toolbox In Scilab”
74	Syed Tanzeel Uddin		Webinar On “The AI Enabled Future
75	Syed Tanzeel Uddin	13th July	Webinar On “ E-Payment: A View Of Authorization,Clearing And Settlement
76	Syed Tanzeel Uddin	4th July, 2020	Webinar On “Robotics Process Automation”
77	Syed Tanzeel Uddin	03-07-2020.	National Leve E Workshop On “OPEN INTERNET RESOURCES”

78	Syed Tanzeel Uddin	03rd July, 2020	National Webinar On ‘An Overview Of Research Ethics & Plagiarism Issues’
79	Syed Tanzeel Uddin	08/08/2020	Quiz On Web Designing & Development
80	Syed Tanzeel Uddin	25.07.2020	Virtual Power Seminar On Big Data
81	Syed Tanzeel Uddin	10th to 14th August 2020	Five Day Webinar On “Leading Edge In Industrial Practice”
82	Syed Tanzeel Uddin	17 June,2020	Webinar On “Natural Language Processing”
83	Syed Tanzeel Uddin	2nd JULY 2020	Webinar On “Challenges In Image Quality Assessment Techniques”
84	Syed Tanzeel Uddin	27/07/2020	World Largest Hands - On Work Shop On Dart Programming Language Organized
85	Syed Tanzeel Uddin	15th July 2020	National Level Quiz On I.T CHAMP 2020
86	Syed Tanzeel Uddin	28th June 2020	Webinar On The Topic Robotic Process Automation(RPA)
87	Syed Tanzeel Uddin	14th August 2020	Webinar On Emerging Technologies In BFSI Sector
88	Syed Tanzeel Uddin	13th Dec 2020	Webinar On Introduction To Full Stack Development With Python Django

S.NO	Name of the Participant	YEAR	Event
1	SYEDA TAMANNA FATIMA	2019	Data Science technology & next generation Artificial Intelligence at MJCET
2	MIR JAFFER ALI		
3	SAMREEN SULTANA		
4	ZOBIA FATIMA FARHAT	2019	Participated in the event Pulse-2k19 at GRIET
5	SYEDA ALINA SHIFA		
6	FATHIMA BANU		
7	SANA SHAHEEEN		
8	SYEDA ALENA SHIFA	2018	Participated in the event Consortium 2018 at IARE
9	ZOBIA FATIMA FARHATH	2018	
10	FATIMA BANU	2018	
11	ASMA ANJUM	2018	
12	AYESHA SULTANA	2018	Participated in Techno Fest Event organised by National Level Technical Symposium
13	HUSSAIN BIN FAZIL SAADI		
14	KABEERUDDIN		
15	. MOHD ABDUL HAQUE		
16	SAYEEDA HUMAIRA		
17	FAHAD MOINUDDIN		
18	. SYED FARHAN AHMED		
19	ANS FAROOQUI	2017	IGNIET 2017, National Level Technical Symposium at NIET
20	AYESHA SULTANA	2017	
21	KABEERUDDIN	2017	
22	MOHD ABDUL HAQUE	2017	
23	NOORAIN SIDDIQUA	2016	3 Day National level workshop on Mobile Application Development-Android" at NIET
24	ALI SALEH ZUBAIDI	2016	
25	SYED MOOSA KALEEM	2015	IGNIET 2015,2 Day National Level Technical Symposium at NIET
26	MOHD ABDUL FAISAL	2015	

5 FACULTY INFORMATION AND CONTRIBUTIONS (200) **Total Marks 187.96**

NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF INFORAMTION TECHNOLOGY

FACULTY LIST ACADEMIC LIST 2021-2022

S.NO	Name of the Faculty	PAN No.	Qualification	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor / Associate Professor	Currently Association (Y/N)	Nature of Association (Regular/ Contract / Adjunct)	If Contractual mention Full time or Part time	Date of Leaving
1	Dr.GANDHAVALLA SAMBASIVA RAO	AGVPG0571D	M.E/ M.Tech and Ph.D	CSE	Professor & HOD	November 14, 2016	November 14, 2016	Y	Regular		
2	Dr. MOHD ATEEQ AHMED	ARHPA2575N	M.E/ M.Tech and Ph.D	CSE	Assoc. Professor	July 21, 2014	January 2, 2017	Y	Regular		
3	Dr. VIJAY KUMAR GUDIVADA	CLKPK5764Q	M.E/ M.Tech and Ph.D	CSE	Assoc. Professor	July 10, 2017	July 2, 2018	Y	Regular		
4	MOHD AYAZ UDDIN	AUMPM0189Q	M.E / M.Tech	Software Engineering	Assoc. Professor	December 3, 2012	December 18, 2017	Y	Regular		
5	PUSHPANJALI PATRA	BDHPP4410J	M.E / M.Tech	Software Engineering	Assoc. Professor	July 29, 2013	August 1, 2018	Y	Regular		
6	SHAIK FATHIMA ZAHERA	DEQPS5556V	M.E / M.Tech	Computer Science	Asst. Professor	February 2, 2015		Y	Regular		
7	FARHEEN SULTANA	DOBPS6577A	M.E / M.Tech	Software Engineering	Asst. Professor	April 15, 2015		Y	Regular		

8	SUMERA JABEEN	AVPPM5935L	M.E / M.Tech	Software Engineering	Asst. Professor	April 14, 2015		Y	Regular		
9	TAHERA ABID	ARKPA0593P	M.E / M.Tech	Software Engineering	Asst. Professor	December 1, 2016		Y	Regular		
10	SABA MOHAMMADI	BSFPM9678E	M.E / M.Tech	Software Engineering	Asst. Professor	January 10, 2017		Y	Regular		
11	MOHD NASAIR UDDIN KHAN	BMLPK4125J	M.E / M.Tech	CSE	Asst. Professor	November 1, 2017		Y	Regular		
12	QAZI MOHAMMED ABDUL BASHEER	EXKPB3072C	M.E / M.Tech	Software Engineering	Assoc. Professor	March 12, 2020	October 10, 2020	Y	Regular		
13	NAZIA AMREEN	BGBPA1408E	M.E / M.Tech	Computer Science	Asst. Professor	March 16, 2020		Y	Regular		
14	UZMA HAROON	BCWPH4275F	M.E / M.Tech	Computer Science	Asst. Professor	March 12, 2020		Y	Regular		

FACULTY LIST ACADEMIC LIST 2020-2021

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3	Dr. VIJAY KUMAR GUDIVADA	CLKPK5764Q	M.E/ M.Tech and Ph.D	CSE	Assoc. Professor	July 10, 2017	July 2, 2018	Y	Regular		
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9	TAHERA ABID	ARKPA0593P	M.E / M.Tech	Software Engineering	Asst. Professor	December 1, 2016		Y	Regular		

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2	Dr.M A BARI	APCPM9033N	M.E/ M.Tech and Ph.D	CSE	Professor	January 4, 2016	February 12, 2018	N	Regular		June 9, 2020
3	Dr. MOHD ATEEQ AHMED	ARHPA2575N	M.E/ M.Tech and Ph.D	CSE	Assoc. Professor	July 21, 2014	January 2, 2017	Y	Regular		
4	Dr. VIJAY KUMAR GUDIVADA	CLKPK5764Q	M.E/ M.Tech and Ph.D	CSE	Assoc. Professor	July 10, 2017	July 2, 2018	Y	Regular		
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10	TAHERA ABID	ARKPA0593P	M.E / M.Tech	Software Engineering	Asst. Professor	December 1, 2016		Y	Regular		

11	SABA MOHAMMADI	BSFPM9678E	M.E / M.Tech	Software Engineering	Asst. Professor	January 10, 2017		Y	Regular		
12	ASRA FATIMA	ABAPF8281D	M.E / M.Tech	CSE	Asst. Professor	April 17, 2015		N	Regular		June 16, 2020
13	MOHD NASAIR UDDIN KHAN	BMLPK4125J	M.E / M.Tech	CSE	Asst. Professor	November 1, 2017		Y	Regular		
14	MIRZA ABDUL AZEEM BAIG	CJLPB5311B	M.E / M.Tech	CSE	Asst. Professor	April 16, 2018		N	Regular		June 16, 2020

FACULTY LIST ACADEMIC LIST 2018-2019

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2	Dr.M A BARI	APCPM9033N	M.E/ M.Tech and Ph.D	CSE	Professor	January 4, 2016	February 12, 2018	Y	Regular		
3	Dr. MOHD ATEEQ AHMED	ARHPA2575N	M.E/ M.Tech and Ph.D	CSE	Assoc. Professor	July 21, 2014	January 2, 2017	Y	Regular		
4	VIJAY KUMAR GUDIVADA	CLKPK5764Q	M.E/ M.Tech and Ph.D	CSE	Assoc. Professor	July 10, 2017	July 2, 2018	Y	Regular		
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9	SUMERA JABEEN	AVPPM5935L	M.E / M.Tech	Software Engineering	Asst. Professor	April 14, 2015		Y	Regular		
10	TAHERA ABID	ARKPA0593P	M.E / M.Tech	Software Engineering	Asst. Professor	December 1, 2016		Y	Regular		
11	SABA MOHAMMADI	BSFPM9678E	M.E / M.Tech	Software Engineering	Asst. Professor	January 10, 2017		Y	Regular		
12	ASRA FATIMA	ABAPF8281D	M.E / M.Tech	CSE	Asst. Professor	April 17, 2015		Y	Regular		

13	SUBRAMANIAM SIVA SG	BQKPS7302G	M.E / M.Tech	IT	Asst. Professor	November 16, 2016		N	Regular		June 14, 2019
14	SHAIK KHAJA HUSSAIN	AFYPH6836A	M.E / M.Tech	CSE	Asst. Professor	July 10, 2017		N	Regular		June 6, 2019
15	SHAIK TABREZ	AJUPT1328B	M.E / M.Tech	CSE	Asst. Professor	October 11, 2016		N	Regular		June 3, 2019
16	MOHD NASAIR UDDIN KHAN	BMLPK4125J	M.E / M.Tech	CSE	Asst. Professor	November 1, 2017		Y	Regular		
17	MIRZA ABDUL AZEEM BAIG	CJLPB5311B	M.E / M.Tech	CSE	Asst. Professor	April 16, 2018		Y	Regular		
18	MOHAMMED ANWAR HUSSAIN	AIMPH3238F	M.E / M.Tech	CSE	Asst. Professor	February 23, 2015		N	Regular		June 3, 2019

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**		**CAYm1**		**CAYm2**		**CAYm3**	
	2020-2021		**(2019-20)**		**(2018-19)**		**(2017-18)**	
	Sanction Intake	**Actual admitted through lateral entry students**	**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	7	60	4	60	0	60	0
3rd Year	60	0	60	0	60	0	60	0
4th Year	60	0	60	0	60	0	60	0
Sub-Total			**180**	**4**	**180**	**0**	**180**	**0**
Total	**187**		**184**		**180**		**180**	
Grand Tota	187		184		180		180	

PG

No. of PG Programs in the Department 0

Grand Total			

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 0

Description	**CAY(2020-21)**	**CAYm1(2019-20)**		**CAYm2 (2018-19)**		**CAYm3 (2017-18)**	
Total No. of Students in the Department(S)	187	184 **students**	**Sum total of all (UG+PG)**	180 **students**	**Sum total of all (UG+PG)**	180 **students**	**Sum total of all (UG+PG)**
No. of Faculty in the Department(F)	12	14	**F1**	18	**F2**	18	**F3**
Student Faculty Ratio(SFR)	15.58	13.14	**SFR1=S1/F1**	10.00	**SFR2=S2/F2**	10.00	**SFR3=S3/F3**
Average SFR	12.90	11.05	**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 a salary as prescribed by the concerened 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)	14	0
CAYm1(2019-20)	14	0
CAYm2(2018-19)	18	0
CAYm3(2017-18)	18	0

Average SFR for three assessment years : 12.90

Assessment SFR : 20

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	1.00	2.00	4.00	6.00	9.00
CAYm1(2019-20)	1.00	2.00	2.00	4.00	6.00	8.00
CAYm2(2018-19)	1.00	2.00	2.00	3.00	6.00	13.00
CAYm3(2017-18)	1.00	1.00	2.00	1.00	6.00	16.00
Average Numbers	1.00	1.67	2.00	1.00	6.00	14.00

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 25.00

5.3

5.3.1.1.1 Faculty Qualification (25) Total Marks 22.96

Institute Marks : 22.96

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
2020-21(CAY)	3	9	9.00	18.25
2019-20(CAYm1)	3	11	9.00	20.56
2018-19(CAYm2)	3	15	9.00	25.00
2017-18(CAYm3)	2	16	9.00	23.33

Average Assessment : 21.96

Faculty Retention (25) Total Marks 20.00

Institute Marks : 20.00

Description	2017-2018	2018-19	2019-20	2020-21
No of Faculty Retained	18	16	12	14
Total No of Faculty	20	18	18	18
% of Faculty Retained	90	89	67	77

Average : 93.51 Assessment Marks : 20.00

5.4 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 along with other methods helps the young minds to increase their learning capacity.

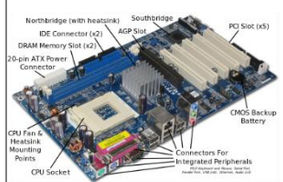
Following are the best and innovative practices undertaken by the faculty members for improving teaching and learning experience

- 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 , SoftComputing , 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 the core 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.

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 - including images, sounds, animations, and much more. ➢ 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 isto motivate students for self Study and Group Study	➢ This best practice enhances the Listeningability, communication skill, Time Management skill and Team Leadership quality of studentsbuilds up. ➢ Student takes responsibility while workingin a team and learn to deal with conflicting opinions. ➢ Sharing of Knowledge uplifts whilepreparing.
3.	Group Discussion	To develop skills in interpersonal communication and in expressing views in a clear and concise manner.	➢ Learn from other peoples experiencesand background knowledge. ➢ Gain perspective and point of view whichincreases the listening and interpersonal skill.
4.	Sessional and pre-university examinations	To broaden knowledge, create competitions, develop personality and confidence, enhance learning	➢ Balanced and fair evaluation of individualstudent. ➢ Accurate judgment to classify weak andstrong students.
5.	Contents beyond syllabus	To bridge the gap between syllabus &recent trends in Engineering & Technology	➢ Students shall be encouraged to workwith 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. ➢ Develop self-directed, reflective, lifelong learners who can integrate knowledge, think critically and work collaboratively.

The Best and Innovative Practices are mentioned below in table:

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. 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** 3. **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. 2. It is indeed vital to educate students about digital literacy. 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. 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. 2. Role playing is effective when the topic involves person to person communication or interactions. 4. Role play can allow everyone to participate.

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	Dr G S S Rao	SE	III-I	2019-20
2	Mr Mohd Ayaz Uddin	DBMS	II-I	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.Farheen Sultana	Data structure through C++	III-II	2019-20
2	Mr. Qazi Mohammed Basheer	Programming Languages	II-I	2019-20
3	Ms.Tahera Abid	Programming for Problem solving	I-II	2019-20

3. Argument Reality:

Educators may use augmented reality (AR) to enhance learning outcomes by increasing interaction and interactivity. In education, augmented reality (AR) includes elements that improve problem-solving, teamwork, and development skills in order to better prepare students for the future.

GOALS: Augmented reality in education can serve a number of purposes. It helps the students easily acquire, process, and remember the information. Additionally, AR makes learning itself more engaging and fun.

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

S.No	Name of the Laboratory	Year-Semester
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
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

Think pair and share

The teacher asks an open-ended question and students think quietly about it for a minute or two. Then every student pairs up with a partner and they discuss the question for two to five minutes. Finally, the whole class engages in a discussion where students raise their hands and share all the thoughts and ideas they've gathered.

Goals:

The Think-Pair-Share activity gives them the opportunity to feel more comfortable sharing their thoughts. In addition to fostering social skills, this strategy also improves students' speaking and listening skills. When pairs brainstorm together, each student learns from their partner.

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

Total Marks 15.00 Institute Marks: 15.00

NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

S.No	Name of the Faculty	Max.5 per Faculty			
		2020-2021	2019-2020 (CAYm1)	2018-2019 (CAYm2)	2017-2018 (CAYm3)
1	Dr.GANDHAVALLA RAO SAMBASIVA	5	5	5	5
2	MOHD AYAZ UDDIN	5	5	5	5
3	Dr. MOHD ATEEQ AHMED	5	2	5	5
4	PUSHPANJALI PATRA	5	5	5	5
5	Dr. VIJAY KUMAR GUDIVADA	5	5	5	3
6	SHAIK FATHIMA ZAHERA	5	0	0	5
7	FARHEEN SULTANA	5	5	5	5
8	SUMERA JABEEN	5	5	5	5
9	TAHERA ABID	5	5	5	5
10	SABA MOHAMMADI	5	5	5	5
11	MOHD NASAIR UDDIN KHAN	2	2	NA	NA
12	QAZI MOHAMMED ABDUL BASHEER	2	3	NA	NA
13	UZMA HAROON	2	NA	NA	NA
14	NAZIA AMREEN	2	NA	NA	NA
	Sum	58	47	45	48
	RF	9	9.2	9	9
	Assessment=3*(sum/0.5 RF)	**38.67**	**30.65**	**30.00**	**32.00**
		Average Assessment over last 3 years			**131.3**
					32.8

5.7 Research and Development (30)

Total Marks 25.00

5.7.1 Academic Research (10)

Institute Marks : 10.00

NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

S.NO	NAME OF THE FACULTY	CONFERENCE	JOURNALS	TOTAL
1	Dr.GANDHAVALLA RAO SAMBASIVA	5	20	25
2	Dr.M A BARI	3	3	6
3	MOHD AYAZ UDDIN	2	12	14
4	PUSHPANJALI PATRA	2	3	5
5	MOHD ATEEQ AHMED	1	0	1
6	SHAIK FATHIMA ZAHERA	0	4	4
7	FARHEEN SULTANA	2	2	4
8	SUMERA JABEEN	0	2	2
9	TAHERA ABID	0	2	2
10	SABA MOHAMMADI	0	2	2
11	VIJAY KUMAR GUDIVADA	0	0	0
12	ASRA FATIMA	0	2	2
13	MOHD NASAIR UDDIN KHAN	0	0	0
14	MIRZA ABDUL AZEEM BAIG	0	0	0
15	QAZI MOHAMMED BASHEER	0	2	2
16	UZMA HAROOR	0	1	1
17	NAZIA AMREEN	0	1	1

NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

List Of Patents

S.NO	Title	Owner(s)	Application Number	Application Date	Domestic / International	Granted Date
1	**AN INTELLIGENT SELF PROTECTION SYSTEM FOR IOT WITH COGNITIVE FOG COMPUTING**	**Dr. G. Sambasiva Rao**	**2021100988**	**23-03-2021**	Australian	14-04-2021
2	**A Novel Method of Power Reduction in Modified AES using Bit Encryption and Decryption Transition Scheme on FPGA**	**Dr. G. Sambasiva Rao**	**202141006425**	**16-02-2021**	Indian	19-02-2021
3	**An IoT Based System For Tracing And Recognizing An Object**	**Dr. Vijya Kumar Gudivada**	**2021102961**	**30-06-2021**	Australian	16-07-2021
4	**A SYSTEM FOR SERVICE PROVIDING USING BLOCK-CHAIN**	**Mr. Qazi Mohammed Abdul Basheer**	**2021101316**	**13-03-2021**	Australian	21-04-2021
5	**A SYSTEM FOR SERVICE PROVIDING USING BLOCK-CHAIN**	**Ms.Farheen Sultana**	**2021101316**	**13-03-2021**	Australian	21-04-2021
6	**RECOGNIZING PARKING SPOTS AND DISTINGUISHING INHABITANCE UTILIZING VISION-BASED IoT**	**Ms. Farheen Sultana**	**202141019090**	**26-04-2021**	Indian	15-05-2021
7	**A System For Cardiac Output Esrimation & Prediction Using Machine Learning Interfaces and Method Thereof**	**Ms. Tahera Abid**	**202121055035**	**28-11-2021**	Indian	10-12-2021
8	**Detection Of The Fake Drugs Using Block Chain Technology**	**Ms. Farheen Sultana**	**202121055035**	**26-10-2021**	Indian	Applied

5.7.2 Sponsored Research (5)

2020-21 (CAY) Institute Marks : 5.00

Project Title	Duration	Funding Agency	Amount
Daybreak Dynamic Website	1 Year	Redsands agriventures private limited	4 Lakh

2019-20 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Mumtaz college of Engineering and Technology Dynamic Website	2 Years	MUMTAZ YARUDDOWLA WAKF BoG	4 Lakh

2018-19 (CAYm2)

Project Title	Duration	Funding Agency	Amount
Mumtaz Degree college Dynamic Website	3 Years	MUMTAZ YARUDDOWLA WAKF BoG	4 Lakh

Cumulative Amount (X + Y + Z) =12 Lakhs

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	Jarvas
2	OCR (Optical Character Recognition)
3	Multi purpose Wireless Automation
4	Gesture Controlled Robo Car
5	Med- Relive
6	ACT. MIDI Controller
7	My Class App
8	Quit Smoking App
9	Lighting Control System an Automata & Unity 3D game
10	Smart Blind Stick
11	HOME AUTOMATION THROUGH BLYNK APP & GOOGLE ASSISTANT

Research laboratories

S.No	Licensed 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(Xampp)
12	Jupyter Notebook/Anaconda/Python3.8
13	Weka 3 - Data Mining with Open Source Machine Learning Software
14.	Android Studio

Instructional materials

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

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

2020-2021

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

Faculty Promotion list (2017-2018):

S.NO	Name Of the Faculty	Date Of Joining	Designation	Date of Promotion	Designation
1	Mr. Mohd Ateeq Ahmed	21-Jul-2014	Assistant Professor	02-Jan-2017	Associate Professor
2	Mr. Mohd Ayaz Uddin	03-Dec-2012	Assistant Professor	18-Dec-2017	Associate Professor

Table 5.8.2 Faculty Promotion list (2017-2018)Faculty Promotion list (2018-2019):

S.NO	Name Of the Faculty	Date Of Joining	Designation	Date of Promotion	Designation
1	Mr. Vijay Kumar Gudivada	10-Jul-2017	Assistant Professor	02-Jul-2018	Associate Professor
2	Ms. Pushpanjali Patra	29-Jul-2013	Assistant Professor	01-Aug-2018	Associate Professor

Table 5.8.3 Faculty Promotion list (2018-2019)

Faculty Award List :

S.NO	Name of the Faculty	Date of Joining	Designation	Award
1	Mr.Mohd Ayaz Uddin	20/12/2010	Associate Professor	Rs. 2000/- Techno Fest-2K18-Coordinator
2	Ms.Farheen Sultana	15/04/2015	Assistant Professor	Rs. 2000/- Job Mela -2017-Dept Coordinator

Table 5.8.5 Faculty Award List (2017-2018)

S. NO	Faculty Name	Date of Joining the Institution	Designation	Award
1	Dr. G.S.S.Rao	14/11/2016	Professor	Rs. 5000/- NAAC Accreditation work
2	Mr.Mohd Ayaz Uddin	20/12/2010	Associate Professor	Rs. 3000/- NAAC Criteria –I Incharge
3	Mr.Mohd Ayaz Uddin	20/12/2010	Associate Professor	Rs. 2000/- Graduation Day-Convener

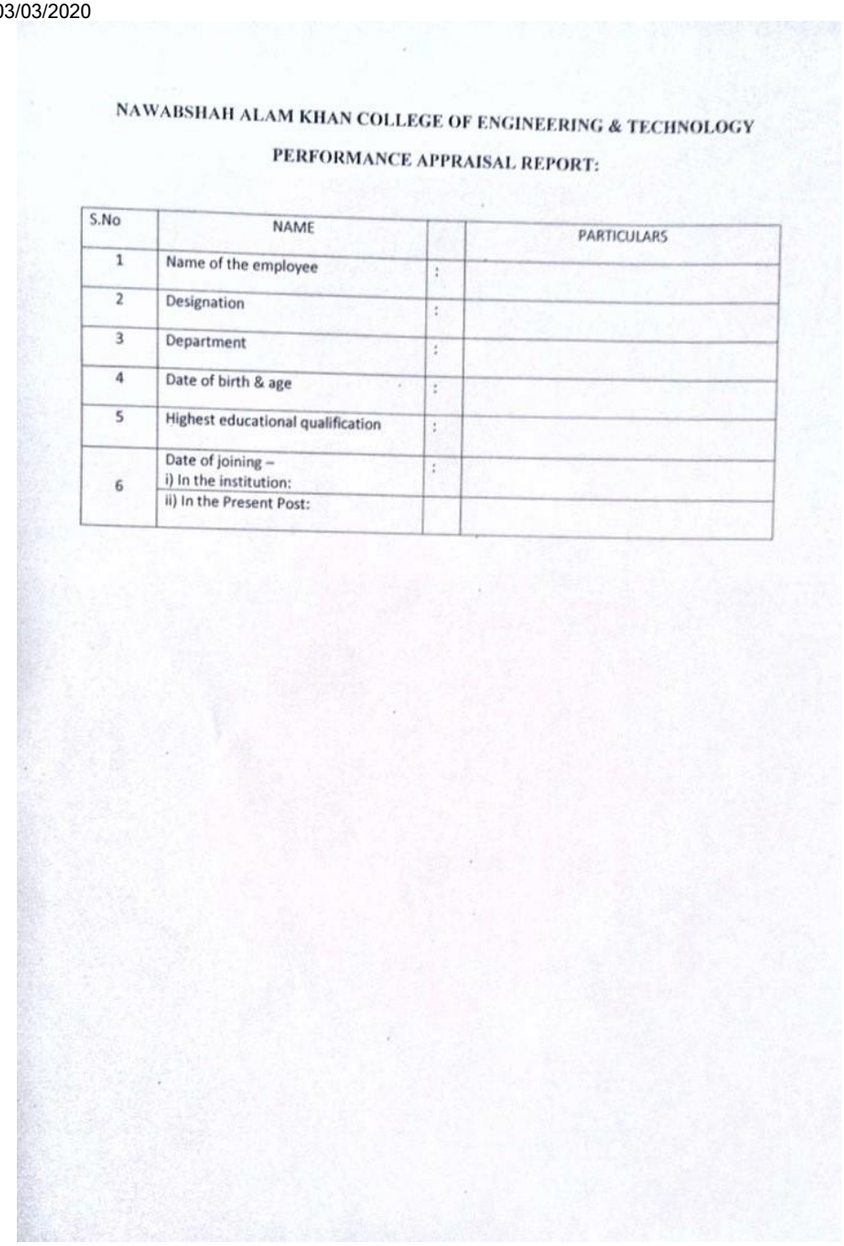
Table 5.8.6 Faculty Award List (2018-2019)

S. NO	Faculty Name	Date of Joining the Institution	Designation	Award
1	Dr. G.S.S.Rao	14/11/2016	Professor	Rs. 3000/- SIP Orientation
2	Mr.Mohd Ayaz Uddin	20/12/2010	Associate Professor	Rs. 2000/- SIP Orientation
3	Mr.Mohd Ayaz Uddin	20/12/2010	Associate Professor	Rs. 2000/- Graduation Day-Convener
4	Ms.Farheen Sultana	15/04/2015	Assistant Professor	Rs. 2000/- Techno Vision-2020-Coordinator

Table 5.8.6 Faculty Award List (2019-2020)

S. NO	Faculty Name	Date of Joining the Institution	Designation	Award
1	Dr. G.S.S.Rao	14/11/2016	Professor	Rs. 3000/- SIP Orientation
2	Ms. Tahera Abid	01/12/2016	Assistant Professor	Rs. 2000 Graduation Day- Committee Member

Table 5.8.6 Faculty Award List (2020-2021)



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:** 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	30	
2	**Research Publications in Journals/Conferences:** 1 SCI Indexed Publication/International conferences : 10/ 5 National 1 Publication having ISSN/ Confernces reputed : 5/3 National	10	
3	**FDP's attended:** 6 Days programme : 5 2 to 5 Days Programme : 3	10	
4	**Improvement in Teaching Learning Process:** Video lecture, online MOOC's, online notes uploading	20	
5	**Technical Programs organized (FDP/Workshops)**	10	
6	**HOD recommendation (Ex: Dept. responsibilty,NBA,NAAC coordination etc.)**	20	
		100	

HOD Remarks

HOD

Principal Remarks

PRINCIPAL

Faculty Performance Appraisal and Development List:

Faculty Promotion list (2017-2018):

Table 5.8.2 Faculty Promotion list (2017-2018)

S.NO	Name of the Faculty	Date of Joining	Designation

Faculty Award List (2017-2018)

Table 5.8.5 Faculty Award List (2017-2018)

S.NO	Faculty Name	Date of Joining the Institution	Designation	Marks	Award

NAWABSHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY

PERFORMANCE APPRAISAL REPORT:

S.No	NAME		PARTICULARS
1	Name of the employee	:	MOHD AYAZ UDDIN
2	Designation	:	Assoc Prof
3	Department	:	IT
4	Date of birth & age	:	01-04-1987 (32)
5	Highest educational qualification	:	M.TECH
6	Date of joining – i) In the institution:	:	20-12-2010
	ii) In the Present Post:		09-01-2018

S.No	Item Name	Maximum Points	Points Obtained
	Academic Performance:		
	Course Pass percentage : 100 %---- 30		
	90 to < 100% ----25		10
	80 to <90%-----20		
	70 to < 80 % --15		10
	60 to < 70 % --10		
1	50 to < 60 % -5	30	6+10 = 20/2
	%--5 < 50 % -- 0		
	Example:		
	Subject1 : 30		=10
	Subject2 : 20		
	Average Points : 50/2 : 25		
	No marks for Lab Courses		
	Research Publications in Journals/Conferences:		
2	1 SCI Indexed Publication/International conferences : 10/ 5 National	10	5
	1 Publication having ISSN/ Conferences reputed : 5/3 National		
	FDP's attended:		
3	6 Days programme : 5	10	5
	2 to 5 Days Programme : 3		
	Improvement in Teaching Learning Process:		
4	Video lecture, online MOOC's, online notes uploading	20	10
5	**Technical Programs organized (FDP/Workshops)**	10	10
6	**HOD recommendation (Ex: Dept. responsibility,ABA,NAAC coordination etc.)**	20	20
		100	60

HOD Remarks

Highly recommended for promotion.

Hod

Principal Remarks

PRINCIPAL

Faculty Performance Appraisal and Development List:

Faculty Promotion list (2017-2018):

Table 5.8.2 Faculty Promotion list (2017-2018)

S.NO	Name of the Faculty	Date of Joining	Designation
1	Mohd Ayaz Uddin	20/12/2013	Assoc Prof
2	Fahreen Sultana	15/04/2015	Asst. Prof
3	Tahera Abid	1/12/2016	Asst Prof

Faculty Award List (2017-2018)

Table 5.8.5 Faculty Award List (2017-2018)

S.NO	Faculty Name	Date of Joining the Institution	Designation	Marks	Award
1	Mohd Ayaz Uddin	20/12/2013	Assoc. Prof.	70	Cash prize + Promotion
2.	Fahreen Sultana.	15/04/2015	Asst. Prof.	60	Basic Salary +10%
3.	Tahera Abid.	1/12/2016	Asst. Prof.	60	Basic Salary +10%

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

Total marks 10

Institute Marks : 10.00

Visiting Faculty

List Of Visiting Faculty

S.No	Name of The Faculty	Academic Year	Total No. of Hours Interaction
1	Ms. Seema Askari	2020-2021	54
2	Ms. Seema Askari	2019-2020	54
3	Mr. Ahmed Shahbaz	2018-2019	57

6. FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

Institute Marks : 30.00

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

Total Marks 30.00

Institute Marks : 30.00

S. No	LAB LOCATION	Name of the Laboratory	Number of students per setup (batch size)	Name of the important equipment	Weekly utilization status (All the courses for whichthe lab is utilized)	Technical man power support		
						Name of the technical staff	Designation	Qualification
1	IT C-104	**PROGRAMMING FOR PROBLEM SOLVING LAB / DATA STRUCTURESLAB**	30 STUDENTS (1:1)	Computer Systems with required Software's	15	Ms. Saera Banu	Instructor	B-Tech
2	IT C-105	**IOT LAB/ Python Programming Lab**	30 STUDENTS(1:1)	Computer Systems with required Software's	12	Ms. Saera Banu	Instructor	B-Tech
3	IT C-204 A	**WEB PROGRAMMING LAB/ DBMS LAB**	30 STUDENTS(1:1)	Computer Systems with required Software's	12	Khaja Ahmed Ali	Instructor	B.Tech
4	IT C-204 B	**JAVA PROGRAMMING LAB**	30 STUDENTS(1:1)	Computer Systems with required Software's	12	Khaja Ahmed Ali	Instructor	B-Tech
5	IT C-205	**ANDROID APPLICATION DEVELOPMENT LAB**	30 STUDENTS(1:1)	Computer Systems with required Software's	12	Afif unnisa Begum	Instructor	B-Tech
6	IT C-206	**IT Workshop Lab**	30 STUDENTS(1:1)	Computer Systems with required Software's	12	Afif unnisa Begum	Instructor	B-Tech
7	IT C-406	**Project Lab**	15	Computer Systems with required Software's	12	Sabahat Ali	Instructor	B-Tech

Total Marks 25.00

Institute Marks : 25.00

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

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 device for better understanding of the subjects	6 hours per week	Real time experience of dissembling, locating the devices, assembling the system	PO1,PO4,PO 7,PPSO1,PS O2
2	CISCO Networking Academy	Ethernet/Wi-Fi Computer with I3 Processor, 500Hard Disk, 8 GB RAM	Industry collaboration program to enhance networking skills for students placement,	Complete semester is opened to utilize	CCNA routing and switching	PO1,PO2, PO3,PO4, PO5,PO9, PO10,PO11, PO12/PSO1, PSO2
3	Smart class facility	Fully equipped shared Smart Class room with LCD projector and software's with the seating capacity of 80. Comfortable desks, chairs and teaching aids. Glass board, Fan, Tube light, chalk board	To enhancing Teaching Learning	Per Semester 15 hours	Better understanding	PO5,PO10,PO12, PSO1,PSO2
4	Python (Software)	A language for software development	For Mini Project & Project	Complete semester is opened to utilize	Data Mining, Networking, Machine Learning	PO1, PO2, PO3, PO5, PO12, PSO1,PSO2
5	E-journal	Facility IEEE, IGATE, Springer	For research and project activities. To know about recent trends in science and technology	Complete semester is opened to utilize	Research activity, Recent trends in engineering, Project activity	PO1,PO2,PO 3,PO5,PO12, PSO2
6	IOT Components	Platform for developing IoT solution	To create a conducive environment for student to build solutions to open ended problems	4th and 3rd year students	Aurdino IDE programming, Python programming, Circuit building.	PO1, PO3, PO5,PO9, PO12 / PSO1, PSO2.
7	Project Lab	Computers	Doing projects	6 hours per day	Doing Project, App Development	PO3, PO5,PO11, PO12, PSO1,PSO2
8	Centralized Computer Center	Computers with internet connection with printing facility	Facility to students for enhancing Teaching Learning	During College Hours	Better Understanding in Teaching Learning Process	P1,P5,P10,P12/ PSO1,PSO2

6.3. Laboratories: Maintenance and overall ambiance (10) **Total Marks 10.00**

To maintain the laboratories a departmental committee is constituted headed by head of the department. This committee is responsible for maintenance.

All the laboratories are maintained periodically.

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 equipment's and software.
5. Servicing of each laboratory is doing frequently.
6. Calibration of 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. Conditions of chairs/benches are in good condition. Chairs are provided for individual students in Labs.
4. Labs are equipped with sufficient hardware and licensed software to run program specific curriculum and off program curriculum.
5. Sufficient laboratory manual are distributed to students.
6. Sufficient number of windows is available for ventilation and natural light and every lab has one exit.
7. Lighting system is very effective, along with the natural light in every corner of the rooms.
8. Emergency light connections available in Lab in case of power failure.
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. Exclusively, a project lab has been provided for the students to carry out their mini and major project work

TABLE 6.3 MAINTENANCE OF SYSTEM – (2019-2020)

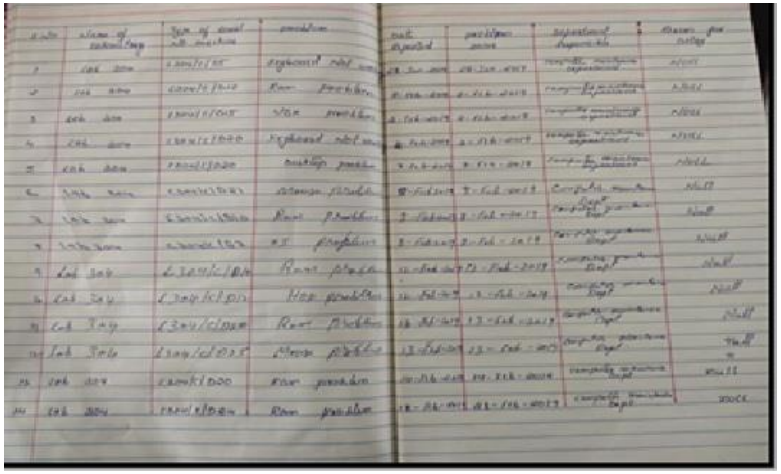


FIG 6.1: MAINTANCE REGISTER

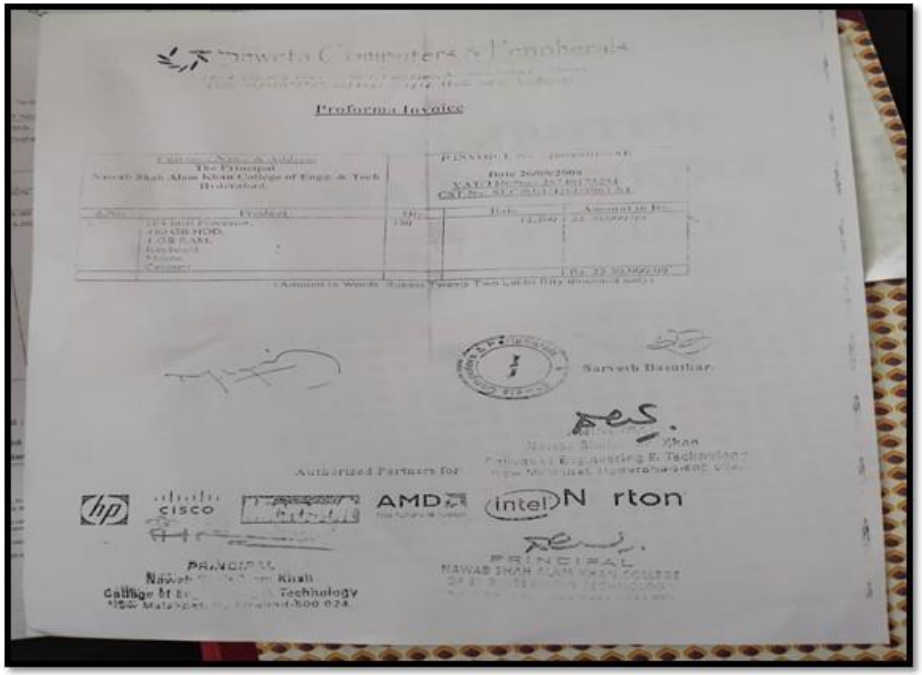


Table 6.3.1 Maintenance & Repair Details from 2017-2021 by External Supplier:

S.No.	Name of the lab	Nature of the problem	Repair Done	Repair done on date	Supplier
1	406	Hard Disk & RAM problem	Hard Disk & RAM replacement	22-10-2021	Elegant Technologies
2	205	Motherboard repairs	Driver filled with data removed unwanted data	18-10-2021	Elegant Technologies
3	206	Repairs of Motherboard, SMPS,HD	Changed setting	4-11-2021	Elegant Technologies
4	204(A/B)	Motherboard repairs	Removed and Replaced RAM	8-01-2020	Elegant Technologies
5	406	24 port switches, Hard Disk, RAMs, SMPS	Removed and replaced with new 24 port switches, hard Disk, RAMs ,SMPS	03-02-2020	Elegant Technologies
6	104	HD, adapters and Mouse replacement	Removed and replaced with new HD,Adapters and Mouse replacement	10-12-2019	Elegant Technologies
7	105	Mouse and keyboard not working properly	Removed and replaced with new keyboard and mouse	11-01-2021	Elegant Technologies
8	205,206	Monitor issues	Replaced with new cable cord and power cord	24-08-2021	Elegant Technologies
9	204(A/B)	Mouse and keyboard not working properly	Removed and replaced with new keyboard and mouse	15-09-2021	Elegant Technologies
10	204-(A/B)	Mother Board and HDD Not working	Change of data cables	22-07-2019	Elegant Technologies
11	104,205	Power spike issue	Power Spike Replacement	12-09-2019	Elegant Technologies
12	205	Mouse and keyboard not working properly	Removed and replaced with new keyboard and mouse	22-6-2019	Elegant Technologies
13	206	Repairs of Motherboard, SMPS,HD	Changed setting	05-04-2019	Elegant Technologies
14	104	Mouse and keyboard not working properly	Removed and replaced with new keyboard and mouse	12-02-2019	Elegant Technologies

6.3.2 Maintenance & Repair Details from 2020-2021 by Inhouse Staff

S.No.	Name of the lab	Nature of the problem	Repair Done	Repair done on date	Staff Name
1	204-B	Software installation issues	Software installed	03-12 -2021	Mr. Khaja Ahmed ali
2	406	LAN Problem	Problem rectified	08-12-2021	Mr Faiz ur Rahman
3	204 -A	OS Corrupted	OS reinstallation	05-11-2021	Mr Sabahat Ali
4	204-A	Disk boot failure	Disk boot troubleshoot done	20-11-2021	Mr. Khaja Ahmed ali
5	204-B	Software support files corrupted	Software reinstalled	07-12-2021	Ms Saera Banu
6	204-B	Not connecting to server	IP address changed	21-11-2021	Mr Sabahat Ali
7	104	RAM Issues	RAM replacement	03-11-2021	Mr Sabahat Ali
8	104	Software's Corrupted	Reinstalled software's	24-11-2021	Ms Saera Banu
9	105	No Display (Monitor issue)	Drivers Installed	20-12-2021	Ms Afif unnisa
10	105	SMPS power failure	SMPS power replaced	27-12-2021	Mr Sabahat Ali
11	205	Keyboard not working properly	Cables were removed	13-11-2021	Mr. Khaja Ahmed ali
12	406	Virus found	Installed Antivirus	27-11-2021	Mr Sabahat Ali
13	204 -A/B	System slow	Uninstalled unwanted software's	05-12-2021	Ms Saera Banu
14	104,105	Blue screen	Os corrupted, installed operating system	11-11-2021	Mr Sabahat Ali
15	205	Missing dll file	Reinstalled OS	6-09-2021	Ms Afif unnisa
16	104,105, 204(A/B)	A hardware failure	Hard disk Replaced	07-09-2021	Ms Afif unnisa/Ms Saera Banu

17 03/03/2020	104,105,205	No Display or black screen on monitor	Change of data cable or display port	22-09-2021	Mr. Khaja Ahmed ali
18	406	Beep sound	RAM replaced	15-9-2021	Ms Afif unnisa
19	205	SMPS power failure	SMPS power replaced	15-09-2021	Ms Afif unnisa
20	204(A/B)	No Display or black screen on monitor	Replaced the motherboard to fix the display problem	27-09-2021	Mr. Khaja Ahmed ali
21	104	Display is rotated	Setting in control panel required	05-02-2020	Ms Saera Banu
22	406	Network connection issues	Network connection troubleshoot	06-03-2020	Mr Sabahat Ali
23	104	Missing dll file	Reinstalled os	09-01-2020	Mr Sabahat Ali
24	105,205	Beep sound	RAM replaced	22-01-2020	Ms Afif unnisa

6.4. PROJECT LABORATORY (5)

PROJECT LAB DETAILS

The project laboratory has a key role in promoting practical and hands on learning throughout the program. It is mainly utilized for the Capstone Project and Mini Project Work. The laboratory is opened to the students from 9.00 a.m. to 5.00 p.m. If the students are willing to work on their projects, even after the working hours they are allowed to work along with a faculty member / lab technicia

- In IT department, an exclusive lab with 20 computers is available for project work to be carried out by students of all semesters, every laboratory integrates project making exercise.
- Project Laboratory enables UG students to obtain hands-on experience and to realize their project ideas as executable projects
- Several successful projects have been carried out by students in this lab.
- High speed internet facilities are always available to these systems
- Final year project and mini project of all semesters are carried out in this lab.
- Open-source software is useful for the faculty who are pursuing their research projects and also useful for students in their projects

Department	IT
Lab Name	Project Lab
Number of System	20
Laboratory Utilized by:	B. Tech./B.E
Area	60’
ABOUT PROJECT LAB	The labs are exclusively used by students for their project work. these labs consist of 20 computer systems with High End Configuration and relevant licensed software installed on it. All computers are provided with the Internet Facility (75 Mbps Link to the college). The machines are also equipped antivirus software, The necessary networking hardware and software are provided on need basis. The PC’s are purely allocated to project groups Lab consist of a heterogeneous environment such as operating system platforms like Windows XP, Windows Server 2003, flavors of Linux; different IDE’s like .NET, JAVA, Visual Studio, Oracle and so on.. All these labs are well equipped with sufficient number of printers.

TABLE 6.4.1: PROJECT LAB

NAME OF LAB	HARDWARE REQUIREMENTS	SOFTWARE AVAILABLE	UTILIZATION	RELEVANCE TO POS AND PSOs
PROJECT LAB	CPU MODEL : I5/I3 500 GB HDD 4GB RAM 15" LCD Monitor Projector Windows 7/10	Turbo C++ ,JAVA SE Development, Microsoft Visual Studio, Microsoft SQL Server, Apache Tomcat, MS-Office 2010,Adobe Acrobat, Python, STAR UML, Weka Tools, Sublime, Adobe Acrobat	UG students, PG students Research Scholars Faculty	PO6, PO7, PO9, PO11, PO12/PSO1,PSO2

PROJECT LAB

6.5. Safety measures in laboratories (10) Total Marks 10.00

S. No	LAB LOCATION	Laboratory Name	Safety Measures
1	IT C-104	PROGRAMMING FOR PROBLEM SOLVING LAB/DATA STRUCTURES LAB	General Rules of Conduct in Laboratories are displayed. First aid box, Fire extinguisher are kept in the laboratory. Well trained technical supporting staff. Avoiding the use of damaged equipments and provides needful equipments andcomponents. Periodical servicing of the lab equipments. Maintain a clean and organized laboratory, Avoiding the use of cell phones. Appropriate storage areas
2	IT C-105	IOT LAB PYTHON PROGRAMMING LAB	
3	IT C-204 A	WEB PROGRAMMING LAB DBMS LAB	
4	IT C-204 B	JAVA PROGRAMMING LAB	
5	IT C-205	ANDROID APPLICATION DEVELOPMENT LAB	
6	IT C-206	ITWORKSHOP LAB	
7	IT C-406	PROJECT LAB	

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	1.2	1.69	Projected target was achieved.
1. Induction program were conducted before the semester beginning for 1st year subjects. 2. Students are motivated to participate in technical events and industrial visits to cut barrier between the complex engineering problems solving. 3. The remedial classes were conducted for slow learners beyond the regular planned classes. 4.Industrial visit to Infosys for up gradation in technologies.			
PO 2 : Problem Analysis			
PO 2	1.2	1.57	Projected target was achieved.
1. Coaching classes were conducted for analytical subjects after the regular classes. 2. Special lecture on Introduction to c programming.			
PO 3 : Design/development of Solutions			
PO 3	1.2	1.43	Projected target was achieved.
1. Coaching classes were conducted for analytical subjects after the regular classes. 2. Special lecture on Introduction to c programming.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.2	1.34	Projected target was achieved.
1. Students are motivated to participate in symposiums/conferences/ project exhibition/internships/industrial visits, to develop knowledge in recent areas of research and improving the complex problem solving skills. 2. Guest Lecture on cyber security , Machine learning for investigating the problems faced in security.			
PO 5 : Modern Tool Usage			
PO 5	1.2	1.07	Projected target was not achieved.
1. Guest lecture on Application of Artificial Intelligence in the field of computers science and information technology. 2. Theory and laboratory courses have been explained and conducted with few modern tools like python,R Programming, etc.. to make more understanding in the specified topics of subjects.			
PO 6 : The Engineer and Society			
PO 6	1.2	0.83	Projected target was not achieved.
Students are motivated to participate in the social service club based activities organized by institute.			
PO 7 : Environment and Sustainability			
PO 7	1.2	0.96	Projected target was not achieved.
Students are motivated to develop the global and environmental issues solution based mini and final year projects like cloud computing, Apps development, deep learning etc..			

PO 8 : Ethics			
PO 8	1.2	0.53	Projected target was not achieved.
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 engineering ethics and social responsibility			
PO 9 : Individual and Team Work			
PO 9	1.2	0.85	Projected target was achieved.
1. Students are grouped to develop the academic final 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. 3. Students are motivated to participate in symposiums / conferences /project.			
PO 10 : Communication			
PO 10	1.2	0.96	Projected target was not achieved.
1. Seminars, symposiums and conferences of inter college participations are motivated to enhance the aspects of communication/skills 2. Classes related to communication skills were conducted as per plan during the respective periods. 3. Professional Communication in English and English Language Communication Skills Lab subjects were conducted by faculties.			
PO 11 : Project Management and Finance			
PO 11	1.2	1.26	Projected target was achieved.
1. The awareness is made in students with respect to administrative standards and activities through some center courses identified with the executives, economics and association of industries.			
PO 12 : Life-long Learning			
PO 12	1.2	1.33	Projected target was achieved.
1. Faculties are motivating to continuous learning for competitive examinations and higher education. 2. Faculties are stimulated to highlight the related areas of Information Technology field to preserve pace with modern technologies by using NPTEL lectures ,PPT's, Webinars.			

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

PSOs	Target Level	Attainment Level	Observations
PSO 1 : 1. Develop efficient information management systems using latest development tools catering to the globally changing requirements in multi-disciplinary domains.			
PSO 1	1.2	1.36	Projected target was achieved.
1. The industrial problems based projects were analyzed by interactions from Industrial experts and to motivate the students for academic projects 2. Guest lecture and industrial visits are organized. 3. Students are encouraged to provide solutions for industrial and social problems during their project work. In this connection, the students can learn to design, analyze and find solutions from the knowledge acquired during the course study. 4. This is enhanced the student's knowledge and improve innovations to project their skills in the symposiums, conferences, project exhibitions etc. 5. Students are prepared the mini and final year projects involving design, analyse and different life cycle process of software engineering.			
PSO 2 : 2. Manage real time IT projects with consideration of human, financial, ethical and environmental factors and an understanding of policy implications.			
PSO 2	1.2	1.38	Projected target was achieved.
1. Subjects of professional ethics, communication skills theory and laboratory, leadership skill and team management related were taught to students as per regular the classes. 2. Guest lectures, industrial visits, symposiums and other events are organized to students to develop their skills. 3. Skill development programme and industrial experts lecture were conducted by department and training & placement cell to obtain required proficiency for the competitive world. 4. Social related problem solving projects are encouraged to students' develop the projects like IOT,web application, games etc.			

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

The purpose of an academic audit is to encourage departments or programs to evaluate their "education quality processes" - the key faculty activities required to produce, assure, and regularly improve the quality of teaching and learning.

GUIDELINES

1. One subject expert (ACADEMIC) nominated by the Head of concerned Department.

a. Experts should be from Affiliated university and other reputed academic Institutions.

2. Internal test and end semester question papers, and Internal test answer scripts will be audited. Two copies of the academic audit report (in the format provided) have to be submitted to Associate Director's office by HoDs.

3. Twelve courses (both question paper and answer scripts) for B.Tech/BE programme will be audited on random basis for each programme.

4. Each expert will audit ten / twelve subjects; five / six in the morning and five / six in the afternoon. Minimum of three answer scripts (one high score, one average score and one low score) will be audited for each subject.

5. Each expert will be paid Rs 4,000/- (2 × Rs 2,000/-) as sitting fee for two sittings (morning and evening).

6. HoDs will be requested to take care of hospitality (guest room, pick up and drop, food, etc.).

7. TA/DA and remuneration will be paid as per the norms.

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)

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

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 counselling, 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.

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 of about 100 hours during the vacation period after the pre- final year exams 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

7.4 Improvement in the quality of students admitted to the program (10) **Total Marks 10.00**
Institute Marks : 10.00

Item	LYG (2016-17)	LYGm1 (2016-17)	LYGm2 (2015-16)	LYGm3 (2014-15)	LYGm2 (2013-14)
Total No of Final Year Students(N)	23	17.00	17.00	1.00	9.00
No of students placed in the companies or government sector(X)	14	10	10	1	9
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or NationalLevel tests, GRE, GMAT etc.) (Y)	2	2	2	0	0
No of students turned entrepreneur in engineering/technology (Z)	3	1	0	0	0
x + y + z =	19	13.00	12.00	1.00	9.00
Placement Index [(X+Y+Z)/N] :	0.82	0.76	0.71	1.00	1.00

Item		2020-21(CAY)	2019-20(CAYm1)	2018-19)CAYm2)	2017-18(CAYm3)
National Level Entrance Examination N/A	No of students admitted	0	0	0	0
	Opening Score/Rank	0	0	0	0
	Closing Score/Rank	0	0	0	0
State/ University/ Level Entrance Examination/ Others EAMCET	No of students admitted	42	40	42	39
	Opening Score/Rank	50137	55066	53129	77395
	Closing Score/Rank	77093	89332	99210	102113
Name of the Entrance Examinationfor Lateral Entry or lateral entry details ECET	No of students admitted	6	4	0	0
	Opening Score/Rank	1429	1203	0	0
	Closing Score/Rank	4850	4715	0	0
Average CBSE/Any other boardresult of admitted students(Physics, Chemistry&Maths)					

8 FIRST YEAR ACADEMICS (50) **Total Marks 41.98**

Institute Marks : 5.00

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

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	06-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		

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

Year	Number Of Students(approvedintake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment=(5*20)/FYSFR(Limited to Max.5)
2017-18(CAYm4)	600	37.5	16.5	6.22
2018-19(CAYm3)	600	34	17.6	5.68
2019-20(CAYm2)	600	36	16.6	6.02
2020-2021(CAY m1)	600	40	15	6.6
2021-2022(CAY)	600	40	15	6.6
Average	600	36	17	5

8.2 Qualification of Faculty Teaching First Year Common Courses (5) **Total 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]
2018-19	4	30	30	3.6
2019-20	4	25	30	3.8
2020-21	3	38	30	4.2
2021-22	3	37	30	4.2

Average Assessment: 2.00

8.3 First Year Academic Performance (10) **Total Marks 4.98**
Institute Marks : 4.98

Academic Performance	2020-21	2019-20	2018-19	2017-18
Mean of CGPA or mean percentage of all successful students(X)	4.20	5.52	2.65	7.42
Total Number of successful students(Y)	57	58	38	32.00
Total Number of students appeared in the examination(Z)	57	58	58	52.00
API [X*(Y/Z)]	4.20	5.52	1.73	4.57

Average API[(AP1+AP2+AP3)/3] : 3.81
Assessment [1.5 * Average API] : 5.71

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

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 **analyzing level and CO3,** 4th and 5th unit covers **Evaluating** and **creating level and CO4.**

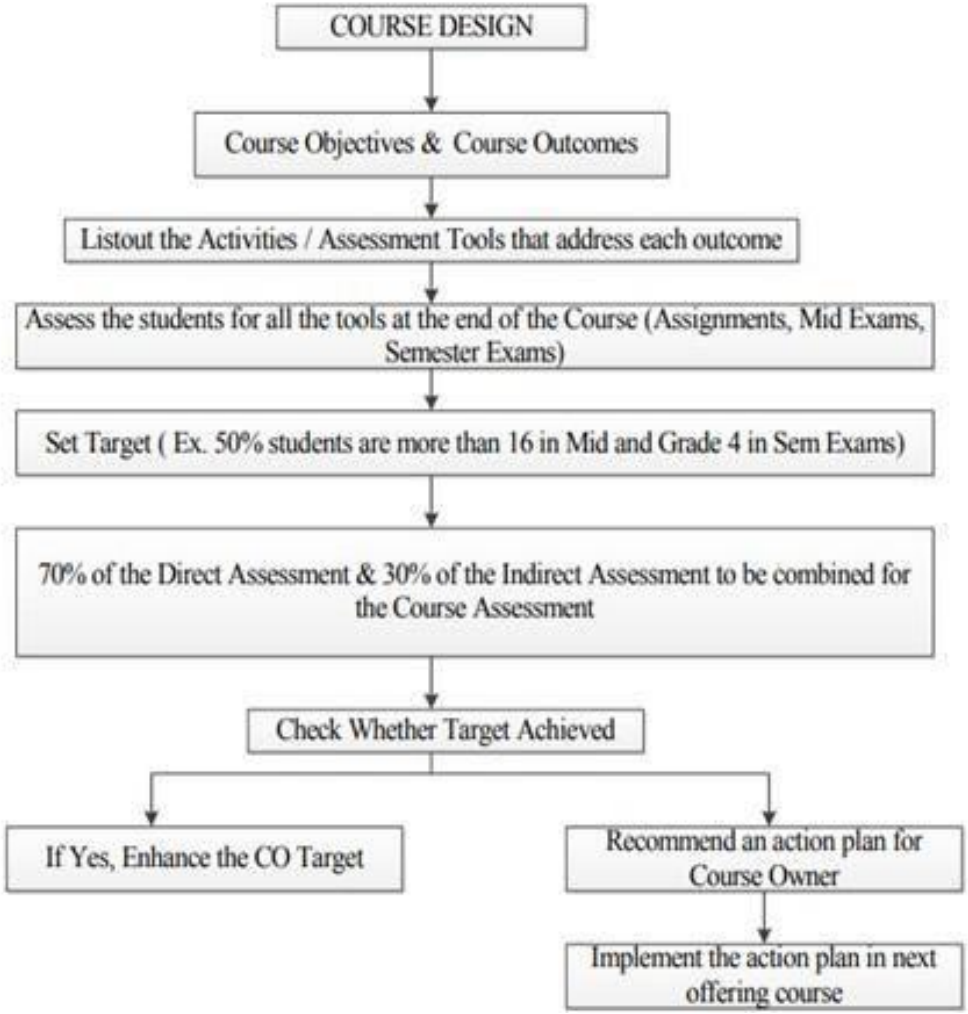
But it may vary from subject to subject whereas some subjects may cover only four level, some may five or all six levels. For evaluation of COs well defined statistical technique is used to map the question with the CO and mapping with the POs and PSOs. Since the question wise results of students from 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. The performance of a student ininternal assessment with respect to the CO's is recorded. 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 The laboratory assessment is evaluated for 75 marks. 75 marks are divided into 25 (INTERNAL) and 50 (EXTERNAL)
2019-2020	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 ininternal 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 out come 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. The performance of a student ininternal 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 out come The laboratory assessment is evaluated for 75 marks. 75 marks are divided 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 ininternal 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 cumulative assessment for a prescribed course out come The laboratory assessment is evaluated for 75 marks. 75 marks are divided into 25 (INTERNAL) and 50 (EXTERNAL)
2016-2017	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 ininternal 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 cumulative assessment for a prescribed course out come The laboratory assessment is evaluated for 75 marks. 75 marks are divided into 25 (INTERNAL) and 50 (EXTERNAL) The internal assessment 25 is further divided into day to dayperformance – 10,record – 5 and internal examination-10.



The following figure depicts the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is obtained.

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.

CAY: 2020-21 Courses I Semester Course titles

S. no	Course Name	Course Code	Subject Code
1	Mathematics-I	C111	BS102MT
2	Physics	C112	BS104PH
3	Basic Electrical Engineering	C113	ES106EE
4	Physics Lab	C114	BS152PH
5	Basic Electrical Engineering Lab	C115	ES154EE
6	Engineering Graphics	C116	ES156CE

AY: 2020-21 Courses II Semester Course titles

S. no	Course Name	Course Code	Subject Code
1	English	C121	HS101EG
2	Mathematics-II	C122	BS103MT
3	Chemistry	C123	BS105CH
4	Programming for problem solving	C124	ES107CS
5	English Lab	C125	HS151EG
6	Chemistry Lab	C126	BS153CH
7	Programming for problem solving Lab	C127	ES155CS
8	Workshop/Manufacturing Process	C128	ES157ME

CAY: 2019-20 Courses 1stSemester Course titles

S.no	Course Name	Course Code	Subject Code
1	Mathematics	C111	BS102MT
2	Physics	C112	BS104PH
3	Basic Electrical Engineering	C113	ES106EE
4	Physics Lab	C114	BS152PH
5	Basic Electrical Engineering Lab	C115	ES154EE
6	Engineering Graphics	C116	ES156CE
7	Indian Constitution	C117	MC111PC

Course attainment for I Year –I Semester Examination 2020-21:

COURSE	ATTAINMENT VALUES
C111	3.0
C112	1.6
C113	0.9
C114	2.25
C115	2.25
C116	3.00

Course attainment for I Year - II Semester Examination:

COURSE	ATTAINMENT VALUES
C121	2.3
C122	0.9
C123	2.3
C124	2.22
C125	2.25
C126	3.00
C127	3.00
C128	2.25

CAY: 2019-120 Courses 2nd Semester Course titles

S.no	Course Name	Course Code	Subject Code
1	English	C121	HS101EG
2	Mathematics-II	C122	BS103MT
3	Chemistry	C123	BS105CH
4	Programming for problem solving	C124	ES107CS
5	English Lab	C125	HS151EG
6	Chemistry Lab	C126	BS153CH
7	Programming for problem solving Lab	C127	ES155CS
8	Workshop/Manufacturing Process	C128	ES157ME
9	Environmental Science	C129	MC112CE
10	Traditional Knowledge	C130	MC113PY

AY: 2018-19 Courses 1stSemester Course titles

S. No.	COURSE NAME	COURSE CODE	SUBJECT CODE
1	Mathematics - I	C111	MA101BS
2	Chemistry	C112	CH102BS
3	Basic Electrical Engineering	C113	EE103ES
4	Engineering Workshop	C114	ME105ES
5	English	C115	EN105HS
6	Engineering Chemistry lab	C116	CH106BS
7	English Language Communication Skills Lab	C117	EN107HS
8	Basic Electrical Engineering Lab	C118	EE108ES

AY:2018-19 Courses: 2ndSemester Course Titles

S. No.	COURSE NAME	COURSE CODE	SUBJECT CODE
1	Mathematics - II	C121	MA201BS
2	Applied Physics	C122	AP202BS
3	Programming for Problem Solving	C123	CS203ES
4	Engineering Graphics	C124	ME204ES
5	Applied Physics Lab	C125	AP205BS
6	Programming for Problem Solving Lab	C126	CS206ES
7	Environmental Science	C127	MC209ES

Course attainment for I-I Examinations: 2018-19

COURSE	ATTAINMENT VALUES
C111	1.22
C112	1.23
C113	1.20
C114	2.79
C115	2.28
C116	2.81
C117	2.77
C118	2.75

Course attainment for I-II Examinations: 2018-19

COURSE	ATTAINMENTVALUES
C121	1.23
C122	1.71
C123	1.19
C124	1.06
C125	2.63
C126	2.81

The course attainment value calculation for the subject c123 is as follows:

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

DEPARTMENT OF INFORMATION TECHNOLOGY

B.E. I YEAR, I/II SEM - **ATTAINMENT CALCULATIONS** - Academic Year: **2020-21**

Subject: MATHEMATICS-1 **Subject Code:** BS201MT **Faculty:** Mr.RIYAZ UDDIN QURESHI

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	Q 4 (7 M)	Q 5 (7 M)	BEST OF Q4&Q5	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	Q 4 (7 M)	Q 5 (7 M)	BEST OF Q4&Q5	CIE-2 TOTAL (30 M)	Average CIE	TOTAL Marks	End Exam
		CO1	CO2	CO1	CO2	CO1	CO1	Q2&Q3	CO2	CO2	Q4&Q5	(30 M)	CO3	CO4	CO3	CO4	CO3	CO3	Q2&Q3	CO4	CO4	Q4&Q5	(30 M)	(30 M)	(100 M)	(70 M)
1	161020737001	5	5	3	3	5		5	7		7	28	5	5	2	2	7		7	7		7	28	28	69	41
2	161020737002	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	69	40
3	161020737003	5	5	3	3		4	4	4		4	24	5	5	1	1		6	6	6		6	24	24	39	15
4	161020737004	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	59	30
5	161020737005	5	5	3	3	3		3		4	4	23	5	5	1	1	6		6	5		5	23	23	23	0
6	161020737006	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	89	60
7	161020737007	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	59	30
8	161020737008	5	5	3	3		5	5		6	6	27	5	5	2	2		6	6		7	7	27	27	39	12
9	161020737010	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	89	60
10	161020737011	5	5	3	3	5		5	7		7	28	5	5	2	2	7		7	7		7	28	28	59	31
11	161020737012	5	5	3	3		5	5		6	6	27	5	5	2	2		6	6		7	7	27	27	69	42
12	161020737013	5	5	3	3	3		3		4	4	23	5	5	1	1	6		6	5		5	23	23	39	16
13	161020737014	5	5	3	3	5		5	7		7	28	5	5	2	2	7		7	7		7	28	28	39	11
14	161020737015	5	5	3	3		5	5		6	6	27	5	5	2	2		6	6		7	7	27	27	39	12
15	161020737016	5	5	3	3		6	6		7	7	29	5	5	3	3	7		7	6		6	29	29	39	10
16	161020737017	5	5	3	3	4		4		5	5	25	5	5	1	1	6		6		7	7	25	25	59	34
17	161020737018	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	79	50
18	161020737019	5	5	3	3	4		4		5	5	25	5	5	1	1	6		6		7	7	25	25	39	14
19	161020737020	5	5	3	3	4		4		5	5	25	5	5	1	1	6		6		7	7	25	25	59	34
20	161020737021	5	5	3	3	5		5	7		7	28	5	5	2	2	7		7	7		7	28	28	59	31
21	161020737022	5	5	3	3		5	5		6	6	27	5	5	2	2		6	6		7	7	27	27	59	32
22	161020737023	5	5	3	3		4	4	4		4	24							0			0	0	12	39	27
23	161020737024	5	5	3	3	7		7	7		7	30	5	5	3	3		7	7		7	7	30	30	39	9
24	161020737025	5	5	3	3	5		5	7		7	28	5	5	2	2	7		7	7		7	28	28	69	41
25	161020737026	5	5	3	3	2		2		2	2	20	5	5	2	2	3		3	3		3	20	20	39	19
26	161020737027	5	5	3	3	5		5	7		7	28	5	5	2	2	7		7	7		7	28	28	39	11
27	161020737028	5	5	3	3		4	4	4		4	24	5	5	1	1		6	6	6		6	24	24	39	15
28	161020737029	5	5	3	3	4		4		5	5	25	5	5	1	1	6		6		7	7	25	25	59	34
29	161020737030	5	5	3	3	3		3	3		3	22	5	5	3	3	3		3	3		3	22	22	39	17
30	161020737031	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	39	10
31	161020737032	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	59	30
32	161020737033	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	39	10
33	161020737034	5	5	3	3	5		5	5		5	26	5	5	3	3	5		5	5		5	26	26	39	0
34	161020737035	5	5	3	3		4	4	4		4	24	5	5	3	3	4		4	4		4	24	24	59	35
35	161020737036	5	5	3	3		5	5		6	6	27	5	5	2	2		6	6		7	7	27	27	39	12
36	161020737037	5	5	3	3	7		7	7		7	30	5	5	3	3		7	7		7	7	30	30	39	9
37	161020737038	5	5	3	3	5		5	7		7	28	5	5	2	2	7		7	7		7	28	28	69	41
38	161020737039	5	5	3	3	5		5	7		7	28	5	5	2	2	7		7	7		7	28	28	69	41
39	161020737040	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	39	10
40	161020737041	5	5	3	3		4	4	4		4	24	5	5	3	3	4		4	4		4	24	24	59	35
41	161020737042	5	5	3	3		5	5		6	6	27	5	5	2	2		6	6		7	7	27	27	39	12
42	161020737043	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	69	40
43	161020737044	5	5	3	3		4	4	4		4	24	5	5	3	3	4		4	4		4	24	24	59	35
44	161020737045	5	5	3	3		6	6		7	7	29	5	5	3	2		7	7		7	7	29	29	39	0
45	161020737046	5	5	3	3	3		3	3		3	22	5	5	1	1		5	5		5	5	22	22	69	47
46	161020737047	5	5	3	3		4	4	4		4	24	5	5	1	1		6	6	6		6	24	24	39	15
47	161020737048	5	5	3	3	4		4		5	5	25	5	5	1	1	6		6		7	7	25	25	39	14
48	161020737049	5	5	3	3		4	4	4		4	24	5	5	3	3	4		4	4		4	24	24	79	55
49	161020737050	5	5	3	3	4		4		5	5	25	5	5	3	3	4		4		5	5	25	25	59	34
50	161020737051	5	5	3	3		3	3		2	2	21	5	5	1	1	4		4	5		5	21	21	39	18
51	161020737052	5	5	3	3		4	4	4		4	24	5	5	1	1		6	6	6		6	24	24	39	15
52	161020737053	5	5	3	3		4	4	4		4	24	5	5	1	1		6	6	6		6	24	24	24	0
53	161020737054	5	5	3	3		3	3		2	2	21	5	5	1	1	5		5	4		4	21	21	39	18
54	161020737055	5	5	3	3		3	3		2	2	21	5	5	1	1	5		5	4		4	21	21	39	18
55	161020737056	5	5	3	3	4		4		5	5	25	5	5	1	1	6		6		7	7	25	25	39	14
56	161020737057	5	5	3	3	3		3		4	4	23	5	5	1	1	6		6	5		5	23	23	39	16
57	161020737058	5	5	3	3		3	3		2	2	21	5	5	1	1	5		5	4		4	21	21	39	18
Average Marks		**4.91**	**4.91**	**2.95**	**2.95**	**4.16**	**4.71**	**4.55**	**5.04**	**5.26**	**5.26**	**25.53**	**4.91**	**4.91**	**2.02**	**1.81**	**5.39**	**6.26**	**5.79**	**5.21**	**6.62**	**5.91**	**25.12**	**25.33**	**49.52**	**23.79**

CIE (Mid Exam) CO Wise Percentage		
COURSE OUTCOME	CO Wise Sum	CO Wise Percentage %
C01	12.41	82.76
C02	13.12	87.47
C03	12.72	84.82
C04	12.63	84.22
Average	**12.72**	**84.82**

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	23.79
Student Count >Avg	26
Total Students	57
Percentage	45.614

SEE (End Exam) CO Wise Percentage		
C01-C04	23.79	45.61

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	**83**	**3**	**45.61**	**1**	**1.6**
CO2	**87**	**3**	**45.61**	**1**	**1.6**
CO3	**85**	**3**	**45.61**	**1**	**1.6**
CO4	**84**	**3**	**45.61**	**1**	**1.6**
Average					**1.6**

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	3			1						1			1			1.6
CO2		1				1						1		1		1.6
CO3	1					1						2	1			1.6
CO4				2			1			1						1.6
Average	**2.00**	**1.00**	**0.00**	**1.50**	**0.00**	**1.00**	**1.00**	**0.00**	**0.00**	**1.00**	**0.00**	**1.50**	**1.00**	**1.00**		**1.6**

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	1.07	0.53	0.00	0.80	0.00	0.53	0.53	0.00	0.00	0.53	0.00	0.80	0.53	0.53	
Indirect Attainment	**1.33**	**1.07**	**0.80**	**1.20**	**0.80**	**1.07**	**1.07**	**0.80**	**0.80**	**1.07**	**0.80**	**1.20**	**1.07**	**1.07**	
Final Attainment	**1.12**	**0.64**	**0.16**	**0.88**	**0.16**	**0.64**	**0.64**	**0.16**	**0.16**	**0.64**	**0.16**	**0.88**	**0.64**	**0.64**	

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

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

POs Attainment:

Course code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C112	Mathematics - I	1.86	1.55	1.69	1.58	1.98	1.68	1.78	1.88	1.74	1.49	1.74	1.86
C113	Physics	1.86	1.55	1.69	1.58	1.98	1.68	1.78	1.88	1.74	1.49	1.74	1.86
C114	Basic Electrical Engineering	5.04	5.04	3.6	5.04	5.04	2.16	4.32	0	5.04	0.72	2.88	7.2
C115	Physics Lab	1.45	1.49	1.58	1.34	1.47	1.55	1.56	1.64	1.54	1.43	1.58	1.49
C116	Basic Electrical Engineering Lab	1.88	2.25	1.88	2.25	0.00	0.00	2.25	0.00	0.00	0.00	1.88	0.00
C117	Engineering Graphics & Design	2.25	1.67	1.50	0.00	1.00	0.00	0.00	1.00	2.50	3.00	1.00	2.25
C123	English	3.2	3.1	3.2	2.3	2.2	3.2	2.2	3.2	3.1	3.2	3.4	3
C124	Mathematics- II	0	0	0	0	0	0	0	0	0	0	0	0
C125	Chemistry	0.8	0.8	1.24	0.53	1.07	1.33	1.20	0.53	0.00	0.00	0.53	0.71
C126	Programming for Problem Solving	3.2	3.1	3.2	2.3	2.2	3.2	2.2	3.2	3.1	3.2	3.4	3
C127	English Lab	1.10	1.20	2.10	1.25	2.00	2.10	1.20	2.25	2.30	2.06	1.40	1.40
C128	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
C129	Programming for Problem Solving Lab	1.88	1.50	1.13	1.50	0.75	0.75	1.88	1.50	1.50	1.13	0.75	1.88
C1210	Workshop /Manufacturing lab	2.67	1.00	0.00	1.50	2.25	2.00	2.00	0.00	1.50	0.00	1.00	1.50

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	**2.15**	**1.92**	**1.95**	**1.80**	**1.87**	**1.80**	**1.90**	**1.90**	**2.26**	**1.97**	**1.77**	**2.24**
CO Attainment	1.93	1.71	1.53	1.35	1.57	1.34	1.56	1.35	1.56	1.77	1.23	1.72

PSOs Attainment:

Course	PSO1	PSO2
C112	1.39	1.78
C113	1.39	1.78
C114	1.44	0.72
C115	1.58	1.57
C116	2.25	1.50
C117	1.75	1.50
C123	3.20	2.20
C124	0.00	0.00
C125	0.53	0.00
C126	3.20	2.20
C127	2.10	2.00
C128	0.75	0.00
C129	1.25	1.50
C1210	2.25	2.00

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.8	1.7
CO Attainment	1.45	1.57

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	2.15	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	1.92	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	1.95	Projected target was 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	1.80	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 conducted by prof.P.V Sudha H.od,csed,O.U			
PO 5: Modern Tool Usage			
PO 5	1.5	1.87	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 their projects with software tools to reduce complexity of experiments and model developments.			
PO 6 : The Engineer and Society			
PO 6	1.5	1.80	Projected target was achieved.
Additional classes were conducted for weak students.			
PO 7 : Environment and Sustainability			
PO 7	1.5	1.90	Projected target was achieved.
1. Economic amd 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	1.90	projected target was 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	2.26	projected target was achieved.
1. Students are motivated to participate and encouraged to attend the various extra curricular activities. 2. 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	1.97	projected target was 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	1.77	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	2.24	projected target was achieved.
Motivated and conducted awareness classes regarding the higher education, entrance examinations were conducted.			

PSOs Attainment Levels and Actions for Improvement- (2019-20)

PSOs	Target Level	Attainment Level	Observations

PSO 1: 1. Develop efficient information management systems using latest development tools catering to the globally changing requirements in multi-disciplinary domains.

PSO 1	1.5	1.78	projected target was achieved.
1. Practical approach of teaching programming to be adapted. 2.More problems will be given for practise for automata theory.			

PSO 2 : 2. Manage real time IT projects with consideration of human, financial, ethical and environmental factors and an understanding of policy implications.

PSO 2	1.5	1.70	projected target was achieved.
1. Additional classes to be conducted to introduce data structure concepts. 2. More problems will be given for practice.			

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	9
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 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 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, Behaviour, 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 interacts with students and counsel them onhigher education and also organize seminars, workshops delivered by experts. Periodically Campus Recruitment Training (CRT) c lasses 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 counselling sessions conducted by Head of the Department and Principal.

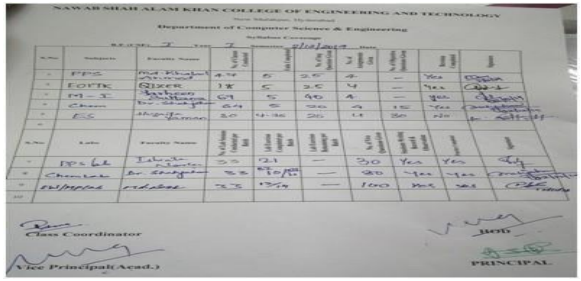


Fig: 9.2.1 Syllabus Coverage Form

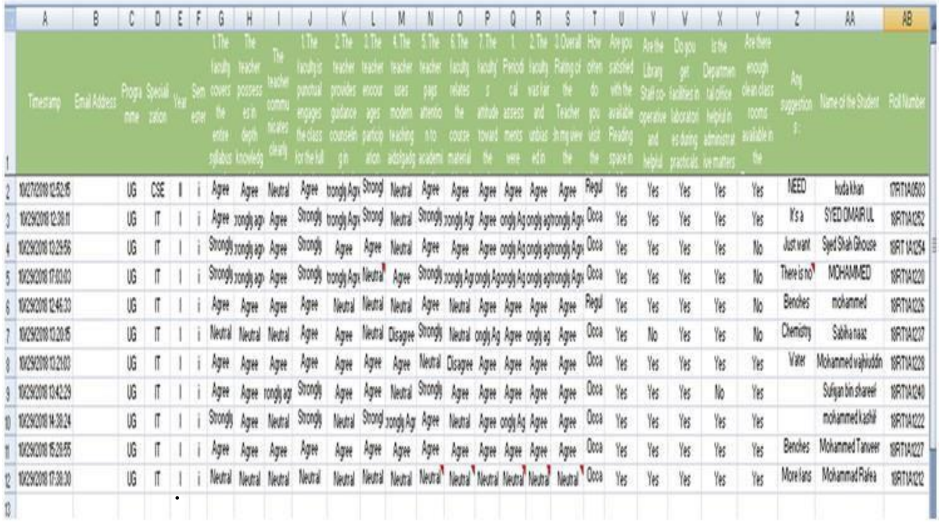
The below Fig 9.2.2 gives the feedback from the students which show the attributes/indices that will be considered and the rating given by the students:

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.

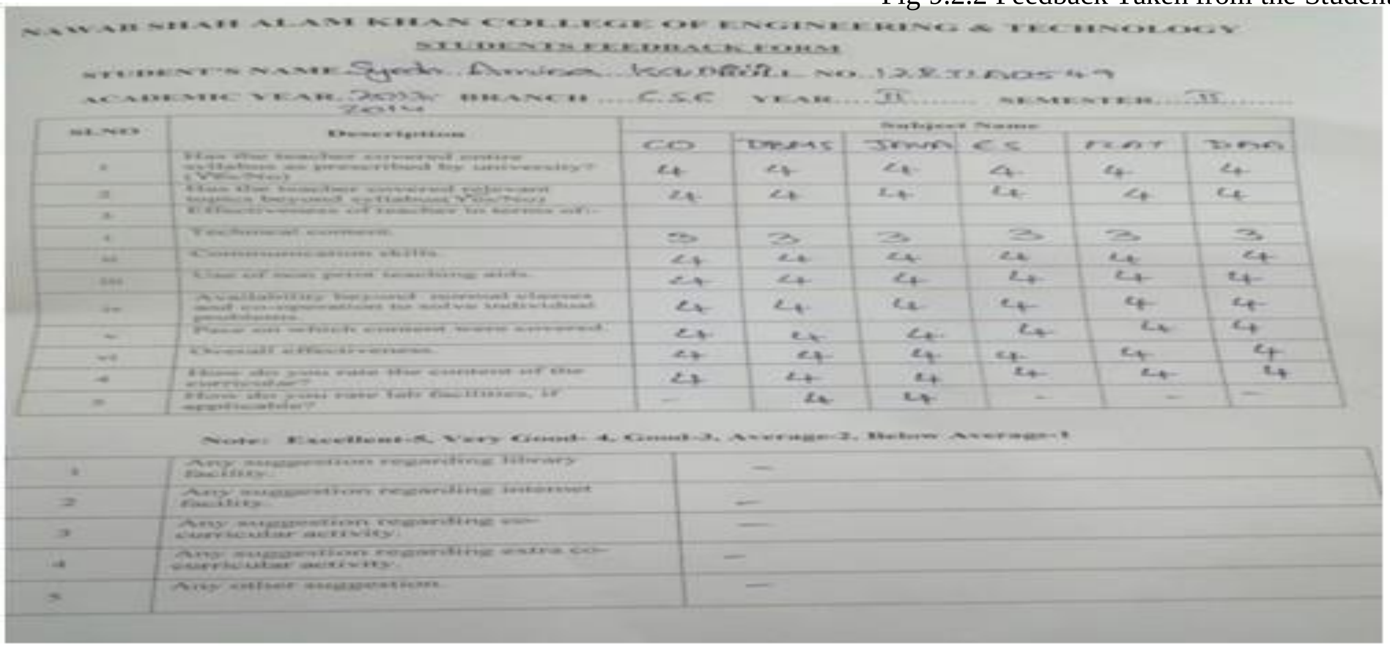
Percentage of Students who participate:

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:



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	V	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	3.The teacher encourages participation	4.The teacher uses modern teaching aids/gadg	5.The teacher pays attention to academ	6.The faculty relates the course material	7.The faculty's attitude toward the	1. Periodical assessments were	2.The faculty was fair and unbiased in	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 Departmental 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 12:52:15		UG	CSE	II	i	Agree	Agree	Neutral	Agree	trongly Agr	Strong	Neutral	Agree	Agree	Agree	Agree	Agree	Agree	Regul	Yes	Yes	Yes	Yes	Yes	NEED	huda khan	17RT1A0503
3	10/29/2018 12:38:11		UG	IT	I	i	Agree	rongly agr	Agree	Strongly	trongly Agr	Strong	Neutral	Strongly	rongly Agr	Agree	ongly Ag	ongly ag	trongly Agr	Occa	Yes	Yes	Yes	Yes	Yes	It's a	SYED OMAIR UL	18RT1A1252
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	trongly Agr	Occa	Yes	Yes	Yes	Yes	No	Just want	Syed Shah Ghouse	18RT1A1254
5	10/29/2018 17:03:03		UG	IT	I	i	Strongly	rongly agr	Agree	Strongly	trongly Agr	Neutral	Agree	Strongly	rongly Agr	ongly Ag	ongly Ag	ongly ag	trongly Agr	Occa	Yes	Yes	Yes	Yes	No	There is no	MOHAMMED	18RT1A1220
6	10/29/2018 12:46:33		UG	IT	I	i	Agree	Agree	Agree	Agree	Neutral	Neutral	Neutral	Agree	Neutral	Agree	Agree	Agree	Agree	Regul	Yes	Yes	Yes	Yes	No	Benches	mohammed	18RT1A1226
7	10/29/2018 13:20:15		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	18RT1A1237
8	10/29/2018 13:21:03		UG	IT	I	i	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Neutral	Disagree	Agree	Agree	Agree	Agree	Occa	Yes	Yes	Yes	Yes	Yes	Water	Mohammed vajihuddin	18RT1A1228
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	Occa	Yes	Yes	Yes	No	Yes		Sufiyan bin shareef	18RT1A1240
10	10/29/2018 14:38:24		UG	IT	I	i	Strongly	Agree	Neutral	Strongly	Neutral	Strong	rongly Agr	Agree	Neutral	Agree	ongly Ag	Agree	Agree	Occa	Yes	Yes	Yes	Yes	Yes		mohammed kashif	18RT1A1222
11	10/29/2018 15:28:55		UG	IT	I	i	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Occa	Yes	Yes	Yes	Yes	Yes	Benches	Mohammed Tanveer	18RT1A1227
12	10/29/2018 17:38:30		UG	IT	I	i	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	Neutral	Occa	Yes	Yes	Yes	Yes	Yes	More fans	Mohammad Rafea	18RT1A1212
13																												

Fig 9.2.2 Feedback Taken from the Student



NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY

STUDENTS FEEDBACK FORM

STUDENT'S NAME Syeda Amina ROLL NO. 12[illegible]

ACADEMIC YEAR 2013-2014 BRANCH CSE YEAR II SEMESTER II

SL.NO	Description	CO	DBMS	JAVA	CS	FLAT	DAA
1	Has the teacher covered entire syllabus as prescribed by university? (Yes/No)	4	4	4	4	4	4
2	Has the teacher covered relevant topics beyond syllabus(Yes/No)	4	4	4	4	4	4
3	Effectiveness of teacher in terms of:-						
i	Technical content	3	3	3	3	3	3
ii	Communication skills	4	4	4	4	4	4
iii	Use of teaching aids	4	4	4	4	4	4
iv	Availability beyond normal classes and co-operation to solve individual problems	4	4	4	4	4	4
v	Pace on which content were covered	4	4	4	4	4	4
vi	Overall effectiveness	4	4	4	4	4	4
4	How do you rate the content of the curricular?	4	4	4	4	4	4
5	How do you rate lab facilities, if applicable?	—	4	4	—	—	—

Note: Excellent-5, Very Good- 4, Good-3, Average-2, Below Average-1

1	Any suggestion regarding library facility.	—
2	Any suggestion regarding internet facility.	—
3	Any suggestion regarding co-curricular activity.	—
4	Any suggestion regarding extra co-curricular activity.	—
5	Any other suggestion.	—

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:

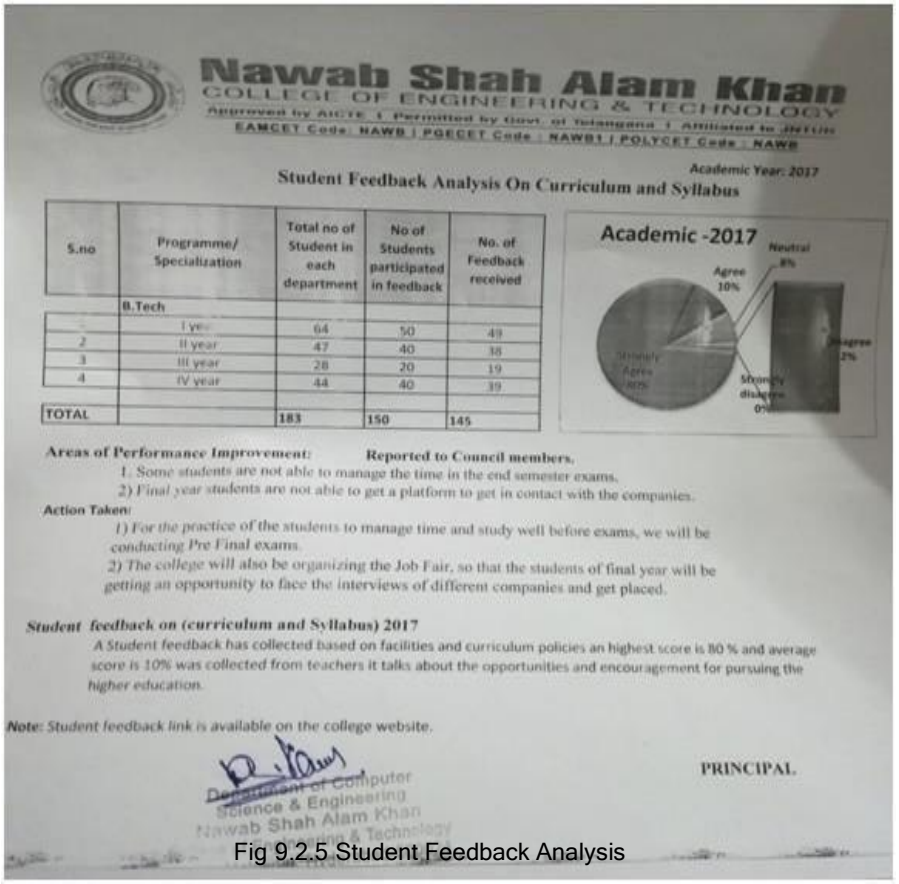
Gradings	Points
Excellent	4.1-5
Good	3.5-4
Average	3-3.5
Below Average	< 3

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

- The letter will be issue by the principal for below average performed faculty to attained the Faculty Development Programme to improve the subject knowledge and quality of teaching..
- To enhance skills of faculty additional course are taken up such as 'NPTEL'.
- Workshop conducted by HOD's/PhD of respective departments.
- Guided faculty to enroll for PhD with any university.
- The faculty who performed Excellent in the academics they will be appreciated with the cash prizes

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

Academic Year: 2017

Student Feedback Analysis On Curriculum and Syllabus

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 year	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

Fig 9.2.5 Student Feedback Analysis

)

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 me asures. 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 I Permitted by Govt. of Telangana I Affiliated to JNTUH
EAMCET Code: NAWB | PGECET Code : NAWB1 | POLYCET Code : NAWB

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
nstitute 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.

Guest lecture by **Dr. Syed Mujahed Hussaini**, about **"CAREER PLANNING: What after B.Tech"** on27- December-2016.

Language la
bEnglish
communication
vocabulary,
etc. LCD
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.

facility for
skill
s,phonetics
projectors
for

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 foste ring 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

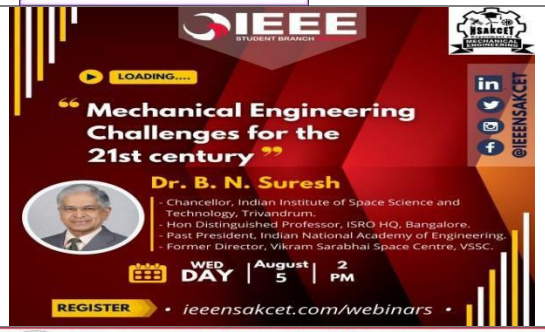
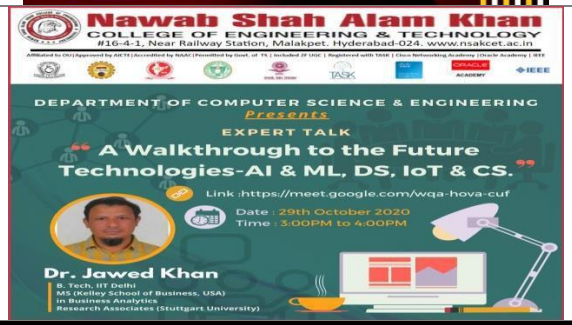
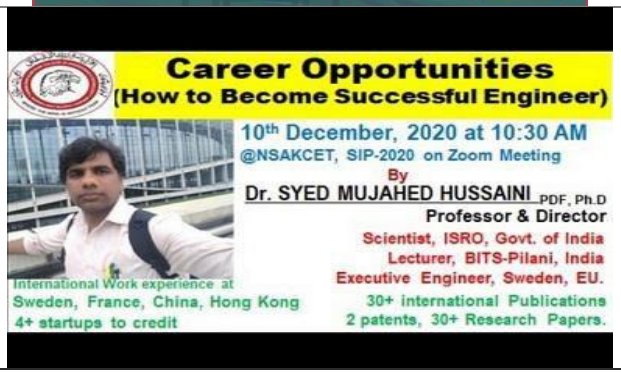
Institute Marks : 10.00

Career Guidance: Effective career guidance services are provided for graduates to discover their strengths and weakness before venturing out into highly competitive world including counselling for higher studies.

- The objective of career guidance cell is to organize 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.

Activities for career guidance cell:

- 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.

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 **lenges & career opportunities in mech engineering" ON 020**	
Webinar by **JAWED KHAN IIT, ALUMNI "opportunities in L, DS, IOT&DS" on 29.10.2020**	
Webinar by Dr.S.M HUSSAINI on "**Employment availability for eers" on 10.12.2020**	

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.

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, communicatiuon skills,presentation skills.

Members in Placement Committee

S. No	Name	Designation	Role
1	**Dr. SYED ABDUL SATTAR, PRINCIPAL**	Chairman	
2	**Mr. MAHESH SINGH BHATIA**	Convener	1. To promote career counselling by organising guidance lectures by seniorcorporate personnel.
3	**Mr. MOHAMMED RAFI , CIVIL DEPT**	Member	
4	**Mr. MOHAMMED KHALEEL AHMED, CSE DEPT**	Member	
5	**Mr. MOHAMMED ANWARUDDIN, ECE DEPT**	Member	2. To establish active communication with the industries.
6	**Mr. SADDAM, EEEDEPT**	Member	

7	**Mr. MOHAMMED AYAZUDDIN,IT DEPT**	Member	3. To conduct awareness seminars for the preparation ofcampus placement.
8	**Mr. SAADATH, MECH DEPT**	Member	4. To coordinate campus placement procedures.

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 counseling by freelancer**		**To guide the students for future endeavour**	**1 day**
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 leardership 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? 2. Benfits of IELTS 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**	**60 hours**

				development	
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:

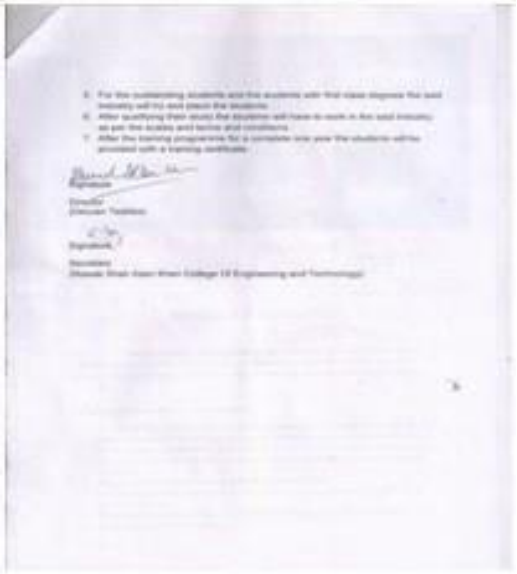
CISCO networking academy:

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	2018-2019	2018-2017	2016-2017
CIVIL	25	30	70
MECH	25	20	65
CSE	10	18	30
IT	5	1	6
TOTAL	65	69`	171

YEAR WISE PLACEMENT

YEAR	NO. OF STUDENTS
2018-19	65
2017-18	69
2016-17	171

Placement drive & training conducted at NSAKCET:

Campus pool drive conducted on 16th feb 2018 atNSAKCET.	

03/03/2020 **Campus pool drive conducted on 16th feb 2018 atNSAKCET.**	
Training program organized by TASK	
Career counseling session	
Aptitude training	
Presentation skills	

Print

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

Moto:

The institution has set up entrepreneurship cell which organizes interactions for motivating and encouraging students for entrepreneurship. T and organizes industrial visits for respective field of specialization to gain practical knowledge. The cell also organizes interactive talks d entrepreneurship spirit and zeal amongst students. It encourages the students to think creatively and innovatively and guide them in their awareness and promote entrepreneurship skills among students. It is to encourage the staff and students to involve themselves in innovati to research publication.

he institution plans with technocrats and businessmen, elivered by industrial executives and experts to instill projects. The main policy of the institution is to create ve practices and various researches which in turn lead

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. 2. EDC also assists all the aspirants with mentoring, planning and execution of their start up idea into a real business. 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 RANKING	
9.	MR.MOHD AYAZUDDIN	COORDINATOR-ARIIA RANKING	

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, interuniversity 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

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.


Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE | Permitted by Govt. of Telangana | Affiliated to JNTUH
Wednesday 28-Feb-2018, NSAKCET Campus
Chief Guest: Dr. A. Govardhan, Rector, JNTUH
TECHNO-VISION 2K18
A Technical Expo of Engineering Students
Branches: CSE / IT / ECE / EEE / Civil / Mechanical

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,shainikpuri ,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 colonyground
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 colonyground
8.	07-11-2019, 08-11-2019	Volleyball	Marri Laxman Reddy Institute of Technology	College Fest	Dundigal policestation, road, Hyderabad, Telangana500043
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	Football	1St 7-A Side Football National championship-	National Level	Vikramaditya Global School, Sampla(Rohtak) Haryana.

	17-11-2019		2019		
11.	25-1-2019	Football	osmaina medial college from reliance youth foundation	Friendly match	Osmania medical college, Koti.
12.	18-12-2019 23-12-2019	Cricket	6A side cricket Federation of india	National level	Punjab public school, Nabha, Punjab.
13.	28-12-2019 29-12-2019 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 2019A 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 theactivity	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	Awarenes s programm e oncrime against	SHE TEAM Hyderabad City Police/NSS	45

		women		
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 SMILESUPER SPECIALITY HOSPITAL	474
2	20-01-2018	Tree plantation in memory of Mr. Nawab Shah	NSS	112

		Alam Khan		
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/volunteer s 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

A. State the Vision and Mission of the Institute (5)

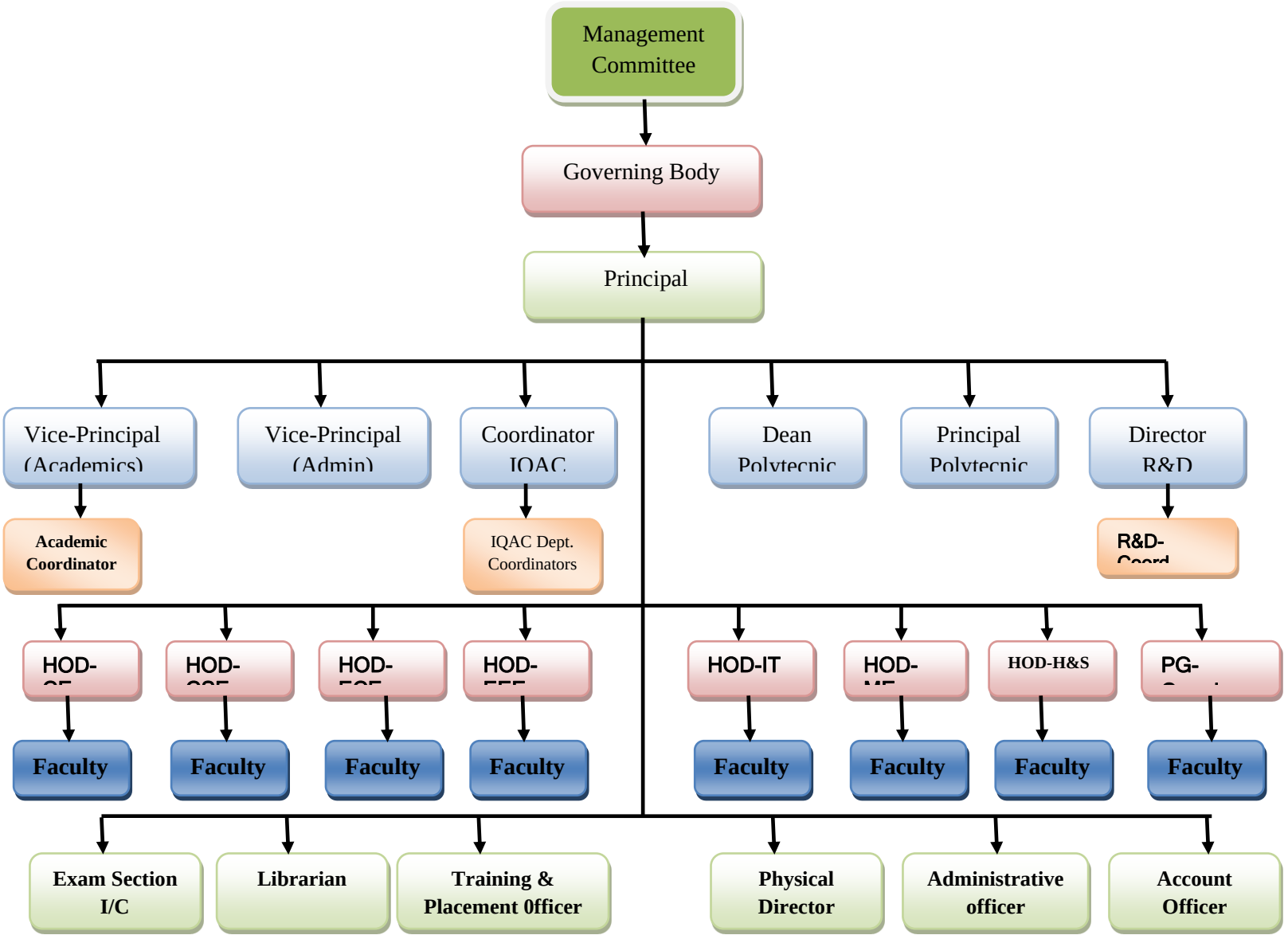
Institute Marks : 5.00

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 inculcatingsound 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 andtechnical concepts.

B. 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 performanceof 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

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 functionsTo 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 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 Committee	Dr. S.Mujahed Hussaini	Yearly twice
17	SC/ST Committee	Mr. P. Ramulu	Yearly twice
18	NSS Committee	Mr. Mohd. Abdul Moyeed	Quarterly

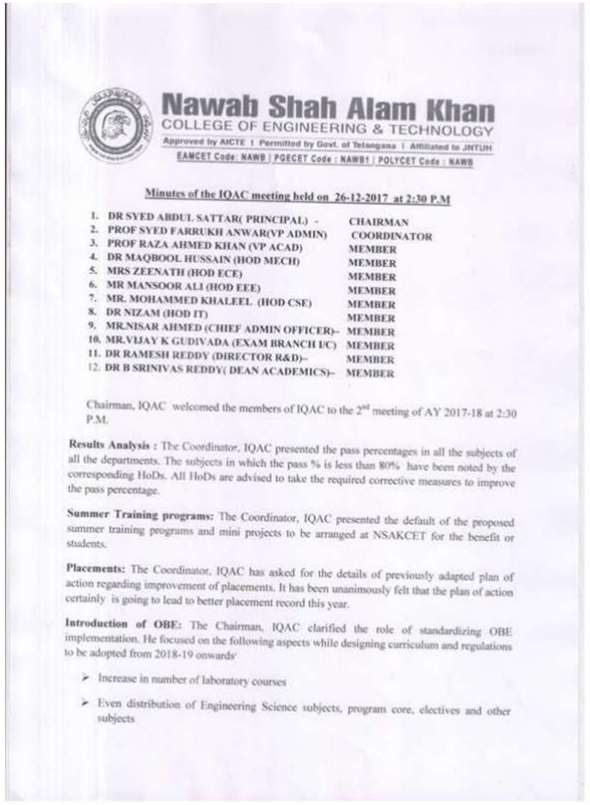
19	Staff & Student Feedback Committee	Mr. Mohd. Khaleel Ahmed	Quarterly
20	Committee for Differently Abled	Ms. Rehana Firdous	Yearly twice
21	IPR Cell	Dr. S. Mujahid Hussaini	Yearly twice
22	Time Table Committee	Mr. Syed Farrukh Anwar	Yearly twice
23	BOG	Dr. Syed Abdul Sattar	Yearly twice
24	Minority / 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

A. Minutes of the meeting and action taken report



Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE I Permitted by Govt. of Telangana I 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.

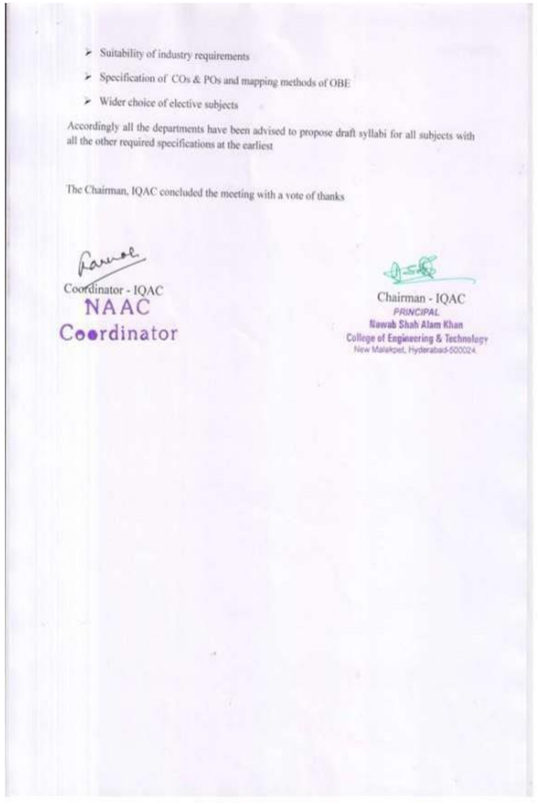
Results Analysis : The Coordinator, IQAC presented the pass percentages in all the subjects of all the departments. The subjects in which the pass % is less than 80% have been noted by the corresponding HoDs. All HoDs are advised to take the required corrective measures to improve the pass percentage.

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

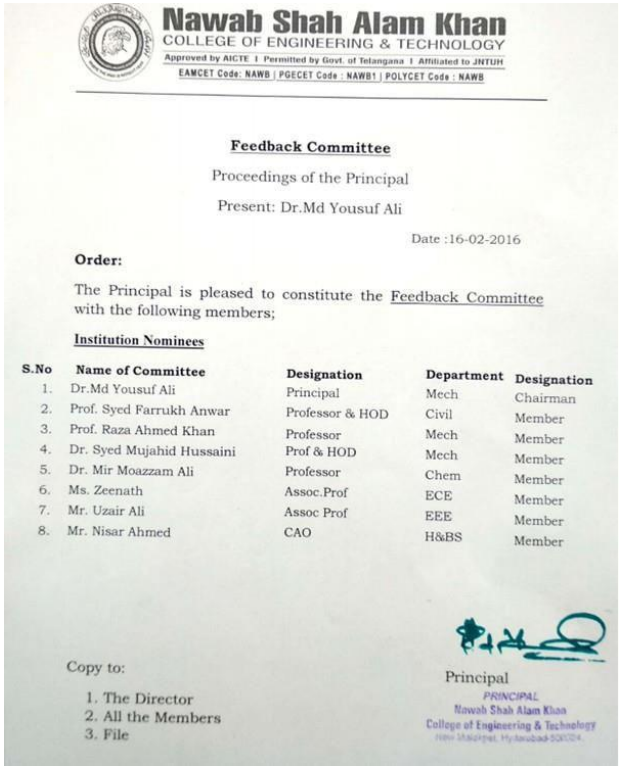
Accordingly all the departments have been advised to propose draft syllabi for all subjects with all the other required specifications at the earliest

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



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

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

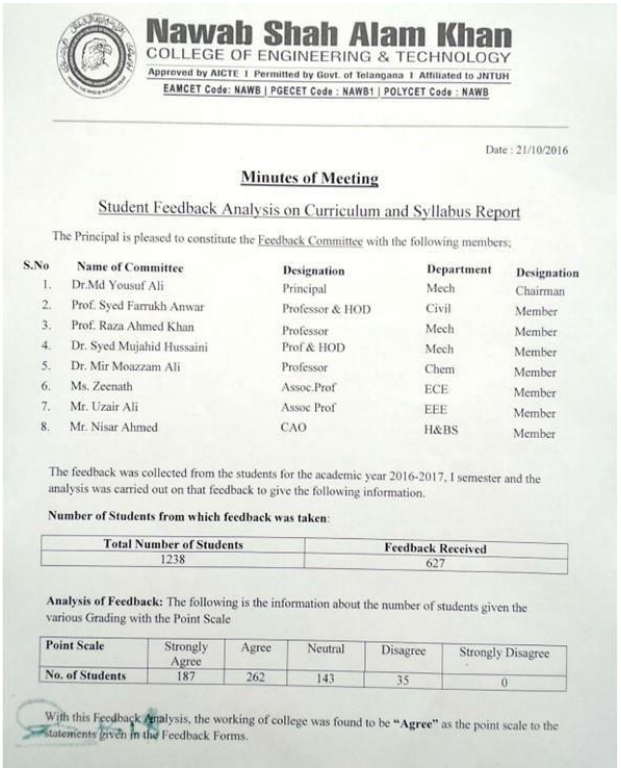
S.No	Name of Committee	Designation	Department	Designation
1.	Dr.Md Yousuf Ali	Principal	Mech	Chairman
2.	Prof. Syed Farrukh Anwar	Professor & HOD	Civil	Member
3.	Prof. Raza Ahmed Khan	Professor	Mech	Member
4.	Dr. Syed Mujahid Hussaini	Prof & HOD	Mech	Member
5.	Dr. Mir Moazzam Ali	Professor	Chem	Member
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



Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY
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EAMCET Code: NAWB | PGECET Code : NAWB1 | POLYCET Code : NAWB

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

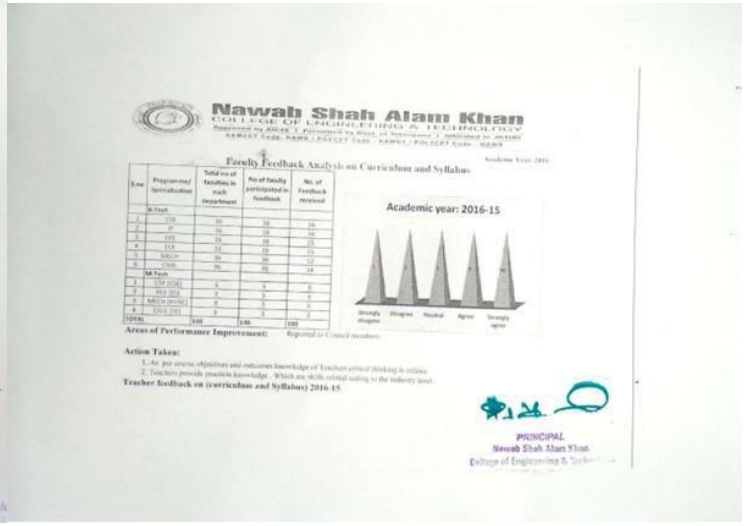
1. Periodical assessments were conducted as per schedule
2. Question paper covers all the topics in the Curriculum
3. The teacher was fair and unbiased in the evaluation Process
4. Overall Rating of the Teacher: In my view the teacher has professional competence and is a role model

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

Faculty Feedback Analysis on Curriculum and Syllabus

Sno	Programme/ Specialization	Total no of faculties in each department	No of faculty participated in feedback	No. of Feedback received
	B.Tech			
1	CSE	30	28	28
2	IT	16	16	16
3	ECE	16	16	16
4	EEE	15	15	15
5	MECH	30	30	30
6	CIVIL	26	26	26
	M.Tech			
1	CSE [CSE]	8	8	8
2	ECE [ECE]	8	8	8
3	MECH [MECH]	8	8	8
4	CIVIL [STE]	8	8	8
TOTAL		160	160	160

Academic year: 2016-15

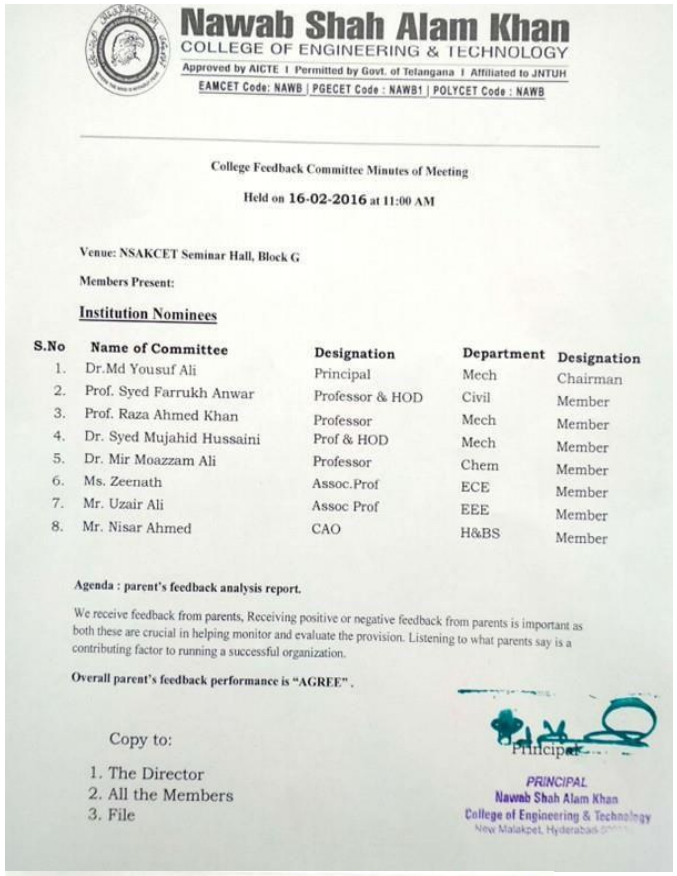
Areas of Performance Improvement: Reported to Council members.

Action Taken:

1. As per course objectives and outcomes knowledge of Teachers critical thinking is within.
2. Teachers provide practical 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 & Technol



Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE I Permitted by Govt. of Telangana I 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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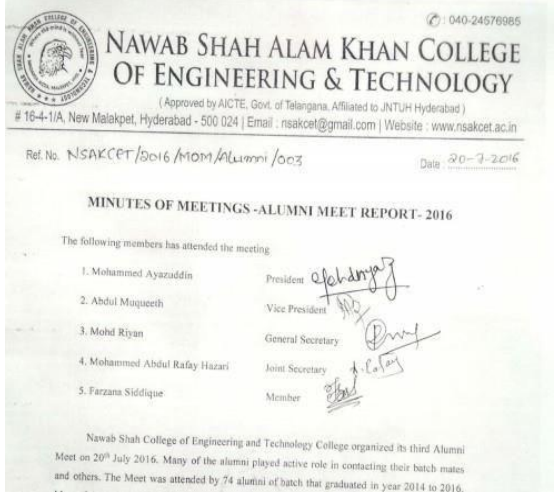
1. The Director
2. All the Members
3. File



✆ : 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

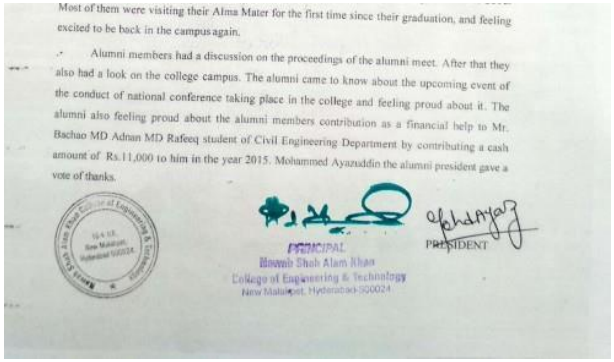
Ref. No. NSAKCET/2016/MOM/Alumni/003 Date : 20-7-2016

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 basedon probable income and expenditure related to the grants received/receivable from UGC ifany, and income from fees, etc. 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.To review the students and facultydevelopment programs. To visualize and formulate perspective plans for the development and growth of the College / Institute.
3	Ms. Pushpanjali Patra	Convener Women Protection committee	To address the needs of women faculty, staff& students 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 thecollege premises among the young technocrats. To motivate the young technocrats for innovation, new idea generation & start up.
5	Mr. Raza Ahmed Khan	Convener Grievance Redressal Co mmittee	To enquire into complaints or grievances received from aggrieved students and faculty.To take corrective measures.
6	Dr. Mujahid Hussaini	Convener R & D Committee	To help the faculty and staff in submitting the proposals to AICTE, DST etc.To guide the faculty in identifying industryoriented projects
7	Dr. Amaresh Babu	Convener Anti-Ragging Committee	To Prevent ragging in campus andsurrounding areas
8	Dr. Mohammad S Qaseem	Convener Internal Quality Assurance Co mmittee	Development and application of qualitybenchmark / parameters of various activities in the institution. Facilitating the creation of a learner- centric environment conducive to quality educationand 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 sportsevents for the academic year. To suggest the methods so that students and faculty utilize sports and games facilitiesavailable in the college. To conduct science Tech-fest by involvingstudents on recent technological developments.
10	Mr. Syed Farrukh Anwar	Convener Disciplinary Committee	To maintain discipline in classroom andcampus.
11	Mr.M. S. Bhatia	Convener Training and Placement	To provide information about various careers available in this competitive world. To conduct campus recruitment training program by making MOU with the companies.To enhance the soft skills of students sothat they will be ready for industry. To identify industries/software companies and convince them for campus placement.

12	Mr. Mohd Ayazuddin	Convener Alumni Association	Maintaining communication channels withalumni keeping them informed of institutional achievements and make thempart of the institutions future. Participate actively in strategic and long-range program planning to promote alumni awareness and commitment to the college.
13	Dr. S. Mujahid Hussaini	Convener Library Committee	To suggest improvements to run the library smoothly, orderly and satisfactorily. To suggestimprovements in digital library.

- **Mechanism and composition of grievance redressal CellGrievanceAppeal**

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 aspecial 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 2020-201

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 fromnook 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 IT 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 IT department and admin block was

muddy.Now, floor tiles have been laid down. The college website

has the link to theGrievance 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 happeningoutside the campus. It has the Principal, HODs, faculty, senior students andparents.

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 studentsand 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 havebetter 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 recommendationof 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, Principal	Chairman	Principal
2	Ms. PUSHPANJALI PATRA, IT DEPT	Convener	IT DEPT
3	Ms SABA FATHIMA ,CIVIL DEPT	Member	CIVIL DEPT
4	Ms SABIHA KHATOON, ENGLISH DEPT	Member	ENGLISH DEPT

5	Ms. AYESHA FATIMA, ECE DEPT	Member	ECE DEPT
6	Ms. SYEDA FARHATH BEGUM,CSE DEPT	Member	CSE DEPT
7	Ms. YASMEEN BANU, EEE DEPT	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 freefrom 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

girlstudents.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.

10.1.4.1 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 ofequipment's, 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

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: Revised Financial Powers Delegate and Utilization (from 2020-21 assessment year)

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

A. Utilization of financial power

S. No.	DESIGNATION	FINANCIAL POWER (InRs.)	Assessment Years				
			2019-20	2018-19	2017-18	2016-17	2015-16
1.	Principal	50000	50000	50000	50000	50000	50000
2.	HODs of Engineering Departments	10000	10000	10000	10000	10000	10000
3.	HODs of Basic Sciences	10000	10000	10000	10000	10000	10000
4.	Head- Library information Center	5000	5000	5000	5000	5000	5000

S. No	DESIGNATION	FINANCIAL POWER (InRs.)	Assessment Years
			2020-21
1.	Principal	60000	60000
2.	HODs of Engineering Departments	15000	15000
3.	HODs of Basic Sciences	15000	15000
4.	Head- Library information Center	6000	6000

B. Utilization of financial power

Utilization of financial power in percentage

S. No.	DESIGNATION	FINANCIAL POWER (InRs.)	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

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

C. **Transparency and availability of correct/unambiguous information in public domain** (5) Institute Marks : 5.00

- 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) .
- 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.

10.2.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30) Total Marks 30.00

10.2.2 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 bycase 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 Expenditurein Rs.	Percentage of Utilization
1	2020-21	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

10.2.3 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
2016-2017	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 Yearminus 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 4– 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 5 – 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

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 Expenditurein 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

10.3 Program Specific Budget Allocation, Utilization (30) Total Marks 30.00

A. **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 before the 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 Information Technology.**

- **Quantum of budget allocation for three years**

Budget tables will be given here

Table: Adequacy of budget allocation

S.No.	Assessment Year	Budget Allocated inRs.	Actual Expenditurein Rs.	Adequate/Inadequate
1	2020-21	20628000	20040209	Adequate
2	2019-20	1,69,53,000	1,67,44,727	Adequate
3	2018-19	1,06,75,000	1,27,05,567	Adequate
4	2017-18	1,04,50,000	1,23,66,662	Adequate
5	2016-17	1,13,25,000	1,33,63,592	Adequate

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 the current financial year and for the last three years for the department of **Information Technology.**

Institute Marks :

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

Budget: **20628000**		Actual expenditure (till…): **20040209**		Total No. Of Students:181
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
4125600	12376800	4008042	12024125	110719.4

Table 2 :: CFY 2019-20

Budget: **16,953,000**		Actual expenditure (till…): **16,744,727**		Total No. Of Students: 173
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
3390600	10171800	3348945	10046836.2	96,790.33

Table 3 :: CFY 2018-19

Budget: **10,675,000**		Actual expenditure (till…):**12,705,567**		Total No. Of Students : 133
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2135000	6405000	2541113	7623340.2	95,530.58

Table 4:: CFYm1 2017-18

Budget: **10,450,000**		Actual expenditure (till…): **12,366,662**		Total No. Of Students : 109
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2090000	6270000	2473332	7419997.2	113,455.61

Table 5:: CFYm2 2016-17

Budget: **11,325,000**		Actual expenditure (till…):**13,363,592**		Total No. Of Students : 96
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2265000	6795000	2672718	8018155.2	39,204.08

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	1,598,400	1,488,120	1,332,000	1,240,100	850,000	1,018,087	600,000	696,979	800,000	958,039
Library	128,160	125,965	106,800	104,971	100,000	86,586	75,000	106,497	100,000	108,000
Laboratory Equipment	388,800	385,776	324,000	321,480	275,000	304,080	225,000	247,992	450,000	515,158
Laboratory Consumables	324,000	318,924	270,000	265,770	175,000	182,308	150,000	163,211	100,000	100,033
Teaching and Non-Teaching Staff salaries	10,440,000	10,502,784	8,700,000	8,752,320	6,275,000	7,513,284	6,275,000	7,509,376	5,725,000	6,840,866
Maintenance and Spares	200,000	165,000	155,100	123,220	60,000	71,013	67,500	77,697	70,000	82,976
R&D	190,800	188,640	159,000	157,200	125,000	145,440	125,000	122,820	125,000	120,168
Training & Travel	37,440	35,157	31,200	29,298	50,000	56,700	50,000	51,124	100,000	90,621
Miscellaneous Expenses	59,040	56,637	49,200	47,198	50,000	57,210	25,000	27,864	25,000	9,651
Others Specify #	7,261,360	677,3205	5,825,700	5,703,171	2,715,000	3,270,858	2,857,500	3,363,103	3830000	4,538,080
Total	**20628000**	**20040209**	**16,953,000**	**16,744,727**	**10,675,000**	**12,705,567**	**10,450,000**	**12,366,662**	**11,325,000**	**13,363,592**

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 Information Technology.**

Table: Utilization of allocated funds

S.No.	Assessment Year	Budget Allocated inRs.	Actual Expenditurein Rs.	Percentage of utilizatiob(%)
1	2020-21	20628000	20040209	97.15
2	2019-20	1,69,53,000	1,67,44,727	98.77
3	2018-19	1,06,75,000	1,27,05,567	84.01
4	2017-18	1,04,50,000	1,23,66,662	84.5
5	2016-17	1,13,25,000	1,33,63,592	84.7

10.4 Library and Internet (20) Total Marks 20.00

10.4.2 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 of library 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 to acquiring 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(LBS)**

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 degreein Lib. Mgmt.	02
9	Computerization for search, indexing, issue/returnrecords	Yes
10	Bar Coding Used?	Yes
11	Library Services on Internet/Intranet	Yes
12	INDEST / DELNET and other similarmembership?	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-learning for 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 librar 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		CIVIL	505	3252		DELNET

2	BE, B .Tech	EEE	414	2726	INDIAN JOURNALS:-72 INTERNATIONAL JOURNALS :-24	(DOWNLOADS, E-JOURNALS: 266) NDL, SWAYAM,NPTEL - DOWNLOAD VIDEOS : 108
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, thelibrary 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	4111	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	2761

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 college has perennial code library management system

The users can access the digital resources by using updated web browsers by using thebelow 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) 2. 300 MBPS(exam branch) 3.150mbps (admin block) 4.300mbps (C block)
WiFi availability	YES
Internet access in labs, classrooms, libraryand officesof all Departments	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 anunderstanding 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 sustainabledevelopment.
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 anddesign 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, tomanage 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

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-
-

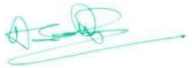
Head of the Institute

Name : DR. SYED ABDUL SATTAR

Designation :

PRINCIPAL Signature

:



Seal of The Institution :

Place : Hyderabad

Date : 06-04-2021 23:34:57