



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

**MALINENI LAKSHMAIAH WOMENS ENGINEERING COLLEGE
PULLADIGUNTA (V), VATTICHERUKURU (MD) GUNTUR DT. ANDHRA
PRADESH -522017**

522017

www.mlewguntur.com

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BANGALORE

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NAAC

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

The Malineni Lakshmaiah Women's Engineering College – a temple of learning was established by Malineni Perumallu Educational Society in the year 2008 in a green lush land away from the hustle and bustle of the city in around 5 acres of beautiful landscape. The college provides a serene and tranquil environment to the students, boosting their potential and preparing them in all aspects to face the global challenges. The college is producing skilled women engineers with good academic excellence. The college is affiliated to JNTUK, Kakinada.

Malineni Lakshmaiah Women's Engineering College offers B.Tech. degree in Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Information Technology (IT), CSE Data Science (CSE-DS) and Artificial Intelligence and Data Science (AI &DS), M.Tech. (CSE), M.Tech. (VLSI). The institution continues to prosper due to hard work of faculty, students and the administrative staff of the institution.

Every department organizes seminars and workshops. To foster professional attitude and behavior, institute organizes personality development and soft skills training programs. The college encourages its students to participate in NPTEL courses, Coursera courses etc.

Aligning to the latest developments in the engineering sector, the faculty members are motivated to participate in Faculty Development Programs, conferences, workshops, seminars and also adopt innovative teaching techniques using the digital technology platforms like Virtual Labs and online teaching.

To promote sports and extracurricular activities, MLWEC has different clubs like Sparks Club, Campus Connect, Dance Club, Music Club, Photography Club and Youth for Seva. The college emphasizes on the importance of inculcation of human values and motivates its staff members and students to participate in social activities being organized by NSS unit of the institution.

Vision

To be a pioneer institute in engineering education, fostering academic excellence, and producing empowered women engineers, blended with ethics and values, to serve the society.

Mission

To achieve academic excellence through innovative teaching-learning practices

To inculcate self-discipline, ethics and values amongst the learners

To bridge the gap between industry and academia through industry institute interface

To promote higher education, research and inculcate entrepreneurial attitude amongst the learners

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. The management is committed to bring high levels of quality in each and every aspect of the institution
2. Socially conscious, humanitarian, far- sighted and visionary management
3. Located close to the city of Guntur.
4. Highly qualified and experienced teaching and non-teaching staff with high retention ratio.
5. Membership with professional societies like IEEE, ISTE, IETE, CSI etc.
6. Wi-fi enabled campus.
7. Students' admissions have been consistently good.
8. Functional MoUs with industries and academic institutions like Cognizant, ByteXL, DXC Technologies etc.
9. Well- established and state-of the-art laboratories with good infrastructure.
10. The administrative and management policies & controls are well-defined.
11. Registered Alumni Association.
12. Recognized and proactive NSS Unit.
13. Lush green environment-friendly, pollution- free, plastic-free campus to create an ideal study space

Institutional Weakness

It takes proactive measures to improve the quality of teaching, learning, and research. Though the institute has scripted many success stories, there are certain areas in which it needs to move forward. There is a need to overcome the limitations in the following areas:

1. Being affiliated institution, inflexibility to academic structure and curriculum.
2. R&D and consultancy activities need to be further strengthened.
3. Establishment of laboratories through Institute Industry Collaboration.

Institutional Opportunity

1. Autonomous status will provide the flexibility in overcoming the shortfalls faced under affiliated status.
2. Increasing demand for engineering graduates for an interdisciplinary, collaborative and global jobs
3. The location of the college will leverage the opportunity to have collaboration with Central/State Universities, industry and research laboratories.
4. Collaborative student projects with industries.
5. Strengthening the alumni network to provide more career development opportunities to the students.

Institutional Challenge

1. Consultancy assignments from the industry.
2. Being an affiliated institution, meeting the industry demands and expectation with rapid change in technology has become a challenge.
3. Attracting core companies for placements.
4. Promoting sponsored research and consultancy as per industry requirements.
5. Involvement of Alumni.
6. Attraction top rank students for admissions

Imparting value-added courses and student exchange programs on niche technologies to bridge the curricular gaps in the stipulated time period of an academic year has always been a challenge

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Being an affiliated college of JNTUK, Kakinada, the curriculum is prescribed by the affiliated university and is observed strictly.

Choice Based Credit system (CBCS) has been implemented in the programs since 2016-17.

The institute is following the Outcome Based Education (OBE).

The Program Educational Objectives (PEOs) of the departments are well defined and implemented along with Program Outcomes (POs), Course Outcomes (COs) and Program Specific Outcomes (PSOs).

The IQAC in support with the Program Assessment Committee (PAC), Department Advisory Committee (DAC) collects the suggestions about the identification of curricular gaps and suggestions are sent to the BOS of JNTUK, Kakinada

The institute meticulously plans its academic sessions, ensuring timely preparation of academic calendars, timetables and the distribution of courses.

The ERP system is used to prepare and maintain the documentation of the curriculum delivery.

Different electives are offered to bridge the gap between curriculum and industry and is achieved by organizing value added enrichment courses, seminars, guest lectures, hand on practical workshops, industrial visits, and internships.

The feedback on the curriculum from the stakeholders is collected and is analyzed and the action plan is discussed and deliberated in department meetings towards addressing the gap.

Class review committee monitors the status of the syllabus covered and feedback is taken from students twice in a semester.

The faculty participates in the activities like Academic council/BOS setting of question papers related to curriculum, design and development of curriculum for add on certificate courses.

The performance of the student is evaluated on a continuous basis by conducting two internal Examinations. HOD and senior faculty verify the quality and standard of the question paper as per JNTUK norms.

The project work and laboratory courses are evaluated as part of CIE performance. As a part of the curriculum, students are offered subjects like Environment and Sustainability, Professional Ethics and Human Values.

All the students undertaking project works, internships and field works.

Teaching-learning and Evaluation

Institution admissions are into the various courses based on APEAPCET/JEE/ECET/PGECET examinations. The Institute follows rules and regulations of State Government with regard to catering multiple needs of students of various categories.

Effective learning is poised with qualitative content delivery by faculty using possible e-learning resources such as ICT enabled teaching, NPTEL Lectures, Journals, Models, Charts, etc.

Evaluation Process and reforms emphasize effectiveness of the teaching-learning process adopted by the Institution. Evaluation process of affiliating University and Institution is being analyzed for effective implementation and possible successive reforms to further refine learning process.

Performance of student is assessed by using direct and indirect assessment methods through COs and POs attainment by analyzing semester wise results.

Feedback from students and parents helps to improve teaching-learning, and assessment strategies adopted by the institution.

An eligibility criterion of a student admission in the college is formulated by the Government of Andhra Pradesh and JNTUK, Kakinada.

The average percentage of seats filled as per reservation policy is SC 15%, ST- 6% and OBC-29% .

The average enrollment percentage is 83.55%

For slow and advanced learners, special programs are conducted after assessing students with internal and external assessments.

Student-Full-time teacher ratio is 1:12.

Student-centric methods like participative learning, experiential learning, problem-solving, methodologies are adopted for enhancing learning experiences.

To achieve effective teaching objectives, teachers adopt instructional methods such as ICT tools with LMS,

- Smart Classrooms Online teaching, Seminars/ Webinars, Workshops/ Conferences/Guest Lectures, Industrial visits, Project Based Learning, e-resources, encouragement to participate in Paper presentations/ Coding Competitions are conducted to enhance creativity and innovation in teaching learning.

Mentor counsels students about academic, co-curricular, extra-curricular and stress related issues.

The average percentage of full-time teachers against sanctioned posts is 100%.

Continuous Internal Evaluation (CIE) is conducted as per schedule and is subjected to reforms.

Assessment system is transparent and robust in terms of frequency and variety. Mechanism to deal with examination-related grievances are also transparent, time-bound and efficiently.

Teachers and students of all courses are well aware of their respective POs, PSOs, and Cos

Institution evaluates attainment of COs, POs, and PSOs

Average pass percentage of final year students is 93.88%.

Research, Innovations and Extension

With the latest trends in the technology department organizes hackathons, workshops, hands-on sessions, value added courses and encouraging the students towards entrepreneurship.

A step has taken forward by the institution towards research and associated activities through equipped research laboratories, conducting technical seminars, workshops and training sessions relating to recent technologies in the various fields to enhance the knowledge of the students on the emerging fields of research.

To publish the research in Patents, Copy Rights, International/National Journals and Conferences

Financial support is provided to faculty members and students by the institution.

The Institute supports faculty members to pursue their Ph.D.'s in various central and state government higher learning institutions.

The Institute has organized various extension activities like

- Swacha Bharath, Blood Donation, Clean and Green, Yoga, Traffic Awareness to excite the students to the social issues, Disha app under NSS.

Institution supports faculty and students with financial aid at various national level competitions like Hackathons organized by international & national forums.

Infrastructure and Learning Resources

The institution has adequate infrastructure and resources that provide the needs of the students. The details of the infrastructure and learning resources that are available are as follows:

28 classrooms with LCD and Wi-Fi facilities and 3 seminar halls with PAS (Public Addressing System), Audio System (amplifier & wireless mouthpiece), LCD projector & screen with LAN, wifi. The institution has domain centric laboratories as per the regulations of AICTE and JNTUK, Kakinada.

The Institution provides well-equipped facilities for outdoor and indoor games. Yoga is practiced and encouraged. Automated library using Integrated Library Management System (ILMS), with a total collection of Titles 2721, Volumes 20085, Total Journals 51 , 46 Printed Journals, 201 e-Journals, 201 Online Journals, 5 Magazines, and 7 Newspapers.

The College library is providing Digital library service with 16 computers with internet facility. All the departments are well equipped with a separate section department library.

The Library provides open access to e-books and has various subscriptions like e-journals, remote access to e-resources and other databases.

The average annual expenditure per year for the purchase of books, Journals and Infrastructure is Rs.4,79,324. Internet Connectivity is provided with Leased line of bandwidth 100Mbps of ION and 40Mbps of BSNL.

Student-Computer ratio is 1:2.

Surplus Ethernet ports, WI-FI are provided across the campus. Facilities such as a media center, recording facility, and lecture capturing system for e-content development are accessible. For infrastructure augmentation and maintenance a considerable amount was allocated in the budget.

Student Support and Progression

Malineni Lakshmaiah Women's Engineering College shows utmost concern for the overall student development and progression as students are major stakeholders. The institution extends support to make students' stay in the campus fruitful, to enrich their learning experience in campus and to pave the pathway to match their goals and motivations.

The eligible students are benefitting financially from the tuition fee reimbursement scheme offered by the state government of Andhra Pradesh.

The capability enhancement and development schemes include skill development courses: communication skills, soft skills, and technical skills and structured CRT programs. Co-curricular and Extracurricular activities are also embedded into the system for an overall development of a student.

Stress management techniques and improving life skills are conducted by the college to train the students like several workshops, seminars and yoga sessions.

Professionals and senior members of the industry conduct training programs to help students for competitive exams and placements.

The consistent academic and other support rendered, has resulted in increased net selections in placements and gradual improvement in average pay package.

The institution encourages students to participate in various cultural and sports activities organized by the college and also other institutions.

For holistic development of a student fraternity several committees, clubs and chapters are constituted at an institution and department level with adequate student representations to promote co curricular and extracurricular activities.

The institution has a very effective and transparent mechanism for timely Redressal of student grievances related to ragging, sexual harassment and indiscipline.

Students are represented in several academic & administrative bodies/committees of the institution. The committees are Arts & Cultural Committee, Anti ragging committee, Internal Complaints Cell, IQAC, **Women Empowerment Committee** etc.

The institution has a registered alumni association and alumni meetings are organized once in a year.

To create awareness among the students the alumni also conducts programs about the current opportunities in the industry and to enhance the employability skills.

Governance, Leadership and Management

The institute has a well-constructed organizational structure.

The head of the institute is over all Incharge for the academic and administrative bodies.

Head of the Departments to support the principal in various academic activities.

The faculty is represented in the IQAC, CAC and administrative committees as part of participative management.

Principal and HOD's have been authorized to sanction any expense up to an amount of Rs.50, 000/- and Rs.5, 000 respectively.

The IQAC committee intermittently monitoring, evaluation of attainment of the strategic plan.

Faculty members are involved in all the academic and administrative committees and assigned decentralization and responsibilities of the work.

E-governance has been implemented for the purpose of admissions, finance, accounts and Examinations.

The institute implements several welfare measures for the faculty and staff for their personal and professional growth and has a well-defined service rules for both teaching & non-teaching staff.

The faculty is financially supported to attend faculty development programs, Refresher courses, workshops, Publication in journals and conferences by providing on duty, registration fee etc.

The faculty are encouraged to enhance their educational qualifications by reducing their workload, adjusting their timetable, and providing academic leave.

The faculty is financially supported by the institution to help the affected to cope up with unprecedented financial stress relating to the Covid-19 Pandemic.

Professional development programs are conducted for teaching faculty and administrative / technical training programs for non-teaching staff.

The institution has a budgetary process through which proposals under different heads are verified and approved by the Governing Body.

The institute follows well defined faculty appraisal system, which was approved by the IQAC.

Internal financial audits conducted periodically and external financial audit conducted once a year.

The teaching learning process evaluation and assessment, structure is regularly reviewed by the Internal Quality Assurance Cell (IQAC).

The institution has donated Relief Efforts like distributing masks, sanitizers, hand gloves, PPE kits, rations, fruits, vegetables and groceries.

The institution creates awareness about vaccines to the individuals and their families at work and home.

Participating regularly in the ranking of HEI's instituted by MHRD, NIRF.

Two undergraduate programs have been accredited by NBA and are live.

Institutional Values and Best Practices

The Internal Complaint Committee looks into the grievances of the women and provides required facilities.

Gender issues are sensitized through various activities.

The Institution has facilities such as solar power and Power conservation is done by using sensor based lights

and LED lamps.

Water conservation facilities like Rain water harvesting pits, recharge of ground water level are available.

Recycled waste water is used for gardening. Drinking water distribution system is maintained.

Waste management includes solid waste, liquid waste and E-waste. Used hazardous chemicals are carefully handled.

A green campus initiative includes restriction of automobiles, pedestrian friendly pathways, and bans on plastic usage. Landscaping is maintained.

The institution has received an award for maintaining clean and green campus. Environmental promotional activities beyond the campus are conducted.

Quality audits on the environment and energy are regularly conducted.

The institution conducts various events under tolerance and harmony towards linguistic, cultural, communal, regional, socioeconomic and other diversities.

The college conducts various programs that bring awareness about rights, duties, the values, and responsibilities among the teachers and students.

The institution has prescribed code of conduct for students, teachers, other staff and administrators.

The institution conducts annual awareness programs on professional ethics and celebrates various commemorative events.

The holistic perspective of the college is to make the students focus on understanding values, nurturing skills and moving towards knowledge. To support this cause, the performance of the institution, in the areas like Malineni campus conducts, hackathons, etc., distinctive to its priority and thrust, is described.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE
Address	Malineni Lakshmaiah Womens Engineering College Pulladigunta (V), Vatticherukuru (Md) Guntur Dt. Andhra Pradesh -522017
City	Guntur
State	Andhra Pradesh
Pin	522017
Website	www.mlewguntur.com

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	J. Appa Rao	0863-3561516	9703144772	-	principalmlew@gmail.com
IQAC / CIQA coordinator	Chiluka Ramesh	0863-2286126	9949798475	-	drchilukaramesh@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	For Women
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details

Date of establishment of the college	24-07-2008			
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name		Document	
Andhra Pradesh	Jawaharlal Nehru Technological University,Kakinada		View Document	
Details of UGC recognition				
Under Section	Date		View Document	
2f of UGC				
12B of UGC				
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	02-07-2021	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Malineni Lakshmaiah Womens Engineering College Pulladigunta (V), Vatticherukuru (Md) Guntur Dt. Andhra Pradesh -522017	Rural	5.08	9916

2.2 ACADEMIC INFORMATION

NAAC

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Computer Science And Engineering	48	Intermediate	English	120	120
UG	BTech,Electronics And Communication Engineering	48	Intermediate	English	60	60
UG	BTech,Computer Science And Engineering Data Science	48	Intermediate	English	60	60
UG	BTech,Artificial Intelligence And Data Science	48	Intermediate	English	60	60
UG	BTech,Information Technology	48	Intermediate	English	60	60
PG	Mtech,Computer Science And Engineering	24	B.Tech or equivalent	English	24	1
PG	Mtech,Electronics And Communication Engineering	24	B.Tech or equivalent	English	24	0
PG	MBA,Master Of Business Administration	24	Any Graduate	English	60	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	8				9				78			
Recruited	6	2	0	8	6	3	0	9	32	46	0	78
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				38
Recruited	10	28	0	38
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				17
Recruited	8	9	0	17
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	6	2	0	6	3	0	0	1	0	18
M.Phil.	0	0	0	0	0	0	1	1	0	2
PG	0	0	0	0	0	0	31	44	0	75
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	0	0	0	0	0
	Female	390	0	0	0	390
	Others	0	0	0	0	0
PG	Male	0	0	0	0	0
	Female	1	0	0	0	1
	Others	0	0	0	0	0
Certificate / Awareness	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	0	0	0	0
	Female	17	7	13	11
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	4	0	3	1
	Others	0	0	0	0
OBC	Male	0	0	0	0
	Female	70	55	49	50
	Others	0	0	0	0
General	Male	0	0	0	0
	Female	251	252	249	266
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		342	314	314	328

Institutional preparedness for NEP

<p>1. Multidisciplinary/interdisciplinary:</p>	<ul style="list-style-type: none"> • Our vision is to be a leading institute in engineering education by fostering academic achievements to empower female engineers who are ethical and value-driven to serve society. • To support women in their career goals and making them competent for enhancing intellectual qualities. • To establish team spirit a conducive working atmosphere with an equally proficient and benefits from one another's strengths. • Humanities and science are part of the curriculum at JNTUK University. • The credit based system is implemented according to the frame work of JNTUK • The institution and its departments encourage students to pursue mini as well as major projects in their areas of interest which is useful to
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	society
2. Academic bank of credits (ABC):	Malineni Lakshmaiah Women's Engineering College is affiliated to JNTU, Kakinada. We are following the choice-based credit system defined by the university. CBCS was executed from the scholarly year 2016-17 including Professional and Open elective in the educational program to work with the multidisciplinary approach for designing critical thinking. The understudies are given the decision to choose the open and Professional elective subject. Workforce is urged to plan their own curricular and instructive ways to deal with a subject that is in line with the college structure. The appraisal structure is characterized by the University. The instructive methodologies followed by the personnel are Group Discussions, QUIZ, Role Play, Case Studies, Assignments, Interactive Seminars, Workshops, Guest Lectures, Conferences and Working Models/Demos
3. Skill development:	To strengthen the technical skills and soft skills of the students, our institute concentrates on the quality standards and conducts periodic reviews to update the academic programs. We impart career guidance to provide quality placement opportunities to the students that are in line with the industry requirements. It also encourages Entrepreneurship. Besides core subjects, students are taught life sciences & humanities subjects like Environmental Sciences, Gender Sensitization and Professional Ethics.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Malineni Lakshmaiah Women's Engineering College is affiliated to JNTU, Kakinada and we follow university rules. There are no guidelines currently from the University to follow bilingual mode of teaching, however, some faculty members follow it in order to improve the intelligibility of the student learning
5. Focus on Outcome based education (OBE):	Our institute implemented OBE in 2018 and follows it promptly. We also strictly follow the NBA defined POs for our programs. We follow Blooms Taxonomy in framing the internal question papers. The COs & PSOs are defined program wise by the Institute by following OBE guidelines in order to define the course plan formulated by CAC.
6. Distance education/online education:	We are following Blended learning and teaching

methods like; Google Meet, Google Classroom, ZOOM, and CISCO WEBEX & YouTube during Covid pandemic time. We use ZOOM or MICRO-SOFT teams to proceed these online classes

NAAC

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
228	203	217	236	218
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
6	5	6	6	6

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1221	1204	1191	1144	978
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
164	164	164	164	164

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
305	310	302	266	157

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
100	105	107	91	87

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
100	105	107	91	87

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 31

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
180.54	201.46	223.29	246.04	206.98

4.3

Number of Computers

Response: 550

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

The institute ensures effective curriculum delivery through:

1. Curricular Planning
2. Teaching-Learning Process
3. Effective Course delivery
4. Self-learning initiatives

Malineni Lakshmaiah Women's Engineering College (MLWEC) approved by AICTE and affiliated to Jawaharlal Nehru Technological University, Kakinada, follows the curriculum prescribed by the university. The university regularly updates its curriculum for UG programs and PG programs which ensures that the updated curriculum meets the industry expectation required from the students.

The university publishes the academic calendars for both semesters with complete details of commencement of academic session, duration of semester, period of internal assessments and semester end examination in an academic year.

Principal conducts college academic committee meeting and informs the HODs to prepare the department calendar specifying the various activities in line with the university calendar.

In accordance with academic calendar published by the university respective department HODs prepare a department academic calendar with working days, schedule, internal assessment examinations, guest lectures, industrial visits, value added courses etc.

HODs will allocate subjects to the faculty members based on the area of specialization, experience, competency and also the preferences they have opted.

HODs will conduct a staff meeting and inform all the faculty members to prepare the course file consisting of Course Outcomes, CO-PO mapping, Lesson Plan, Assignments etc.

The timetable coordinator prepares class wise timetables in consultation with central timetable coordinator and also allocations of classrooms is done.

The timetable committee prepares the class time tables specifying the theory classes, laboratory classes and also the individual faculty time tables for the all programs in every semester.

The timetable and academic calendar are given before the commencement of the classes to the faculty members through the respective Heads of departments.

The curriculum is executed and monitored by the HOD for systematic coverage of syllabus as per the lesson plan.

For every 2 weeks and 14 weeks after the commencement of class work, IQAC Committee collects the feedback from the students for all courses. Feedback analysis rewards and corrective action are taken accordingly.

In addition to the classroom teaching method, faculty members deliver lectures using ICT tool and other innovative strategies such as online teaching using Microsoft Teams, Zoom etc particularly during Pandemic situation.

The college follows semester system of examination. Subjects are allocated to the faculty based on the area of specialization, experience, competency and also preferences they have opted.

The Class monitoring committee collects the feedback from the students on syllabus coverage and academic related matters.

The academic performance of students is continuously monitored by periodically conducting class tests, midterm exams during the semester in order to assess the understanding of the students by the respective teachers of each department.

The institution follows the integrated mentoring system where the faculty is allocated as mentor for a group of every twenty students. This helps to assess the holistic performance of the student continually monitored and guided.

Mentoring is an established relationship for the purpose of learning and personal or career development and in turn for overall development of the student.

Counselling & mentoring dairy are maintained by mentors where all the details of the students are recorded.

File Description	Document
Upload Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

Malineni Lakshmaiah Women's Engineering College receives program and semester wise academic

calendar from JNTUK, Kakinada, as it is affiliated to it. The university academic calendar focuses on the date of commencement of the class work, number of instructional weeks per mid-term syllabus including mid-term examination schedule and semester end examination schedule.

The evaluation of each course shall contain two parts:

1. Internal or In Semester Assessment (IA)

2. External or End-Semester Assessment.

There are two internal tests conducted per semester. The schedules of internal assessments are communicated to students and faculty at the beginning of the semester through institute academic calendar which is prepared based on the university academic calendar. The internal exam timetable is displayed on the notice board a week in advance.

Conduct of Continuous Internal Evaluation CIE:

- Question papers are prepared by concerned faculty of every department for all programs being offered; a copy of the question papers is submitted to the academic section. The faculty sets questions from each unit covering all topics.
- All question papers are prepared with COs and indicating revised Blooms Taxonomy levels. Respective faculty prepares the answer key and a scheme of valuation of the internal assessment papers.
- The subject handling faculty prepares question bank that covers an equal number of questions from each unit covering all the topics.
- The department internal exam coordinator under the guidance of the HOD checks the standard of the question bank.
- Question papers are given to the internal exam coordinators of the department.
- Internal exam coordinator ensures smooth conduction of test and proper valuation of internal papers.
- Marks are entered in the soft and hard copy.
- The Faculty prepares the answer key / scheme of evaluation and is documented with a copy of sample question paper for future reference.
- Performance of the students is evaluated by conducting internal examinations, assignments and conduct of seminar, class tests etc.
- The Project work is evaluated using project rubrics.
- Students' day to day performance is evaluated experiment wise in all laboratories.

CIE marks uploaded to the university web portal within the stipulated time.

Internal assessment tests and other measures taken to judge the performance of students is done fairly and in an effective manner. Students are allowed to go through the valued answer scripts of internal assessment tests and doubts (if any) regarding the evaluation are cleared by the subject faculty. Whenever class tests and internal assessment tests are conducted, the results of the students' performance are used by the faculty to identify slow and advanced learners.

Students are counseled by their mentors to encourage them to perform better. Nearly 20 students are entrusted to each faculty member to be mentors and advisors of the students. The mentors sort out the

personal issues, academic and non-academic problems of their mentees and provide counseling and guidance.

File Description	Document
Upload Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: A. All of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 100

1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.

Response: 6

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years**Response:** 112**1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.**

2020-21	2019-20	2018-19	2017-18	2016-17
35	32	32	8	5

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Any additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years**Response:** 77.01**1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
1221	1204	1191	567	347

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment**1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum****Response:**

The college follows a curriculum wherein several undergraduate programs incorporate in their respective course topics that include cross cutting issues relevant to Gender, Environment and Sustainability, Human values and Professional ethics.

Human Values and Professional Ethics:

The Course, Human Values and Professional Ethics offered in the curriculum, covers identification of human values and skills, profession and happiness, importance of trust, mutually satisfying human behaviour, appropriate technologies and management patterns to create harmony in professional and personal life.

To create scientific approach and social awareness among the students, lectures and quiz, essay, etc. are conducted by NSS. The college takes efforts for integration of ethical and human values through extra-curricular activities as well. Programs conducted under NSS help to inculcate human values among students. Guest lectures on value education have been organized for students. National festivals like Independence Day and Republic Day serve as a platform to enliven patriotic and moral values. Different social activities have been initiated by the college such as Medical check-up camps, Road safety Campaign, Blood donation camps, etc.

Gender Equality:

Gender Equality and Equal opportunity for women are necessary in the institution. Every activity and program of the circular of the institute should provide equal opportunity for the development of the girl students and the female staff. In maintaining the equality among the staff and students the Women development cell and Anti ragging cell are active.

The college has Women Grievance Cell to provide counseling to students, promote gender equity among students and also deal with related issues of safety and security of female students, staff and faculty. The college campus is secured with CCTV and high level security. There is a separate Girls hostel (In-campus) for providing the safe environment to all students.

These committees take utmost care and provide support to girl students and the female staff. Meetings are conducted on a regular basis and issues are discussed over to find solution for making a better environment for the women.

The Programs such as "Cervical Cancer Awareness", "An Orientation on Behavior and Discipline of Girl Students", "Violence against women-Safeguards-awareness of women laws" were conducted.

Environment and Sustainability:

N.S.S. promotes environmental protection through tree plantation and other sustainable development programs. Every year, N.S.S. unit undertakes a host of activities in the nearby villages during the special camps. In these camps, N.S.S. organizes various environmentally related programs, including tree plantation, village cleanliness, Poster Competition, Debate Competition, etc.

Various activities like quiz and poster competitions, invited talks are organized to create awareness about nature. Different activities have been initiated by the college to save the environment such as Cleanliness Campaigns at village and Public spaces etc.

The cleanliness program is organized to clean ponds, watering plants, Celebration of various days like World Environment Day, NSS Day, etc. The college has taken initiative in Swachh Bharat Abhiyan and Tree plantation programs which are introduced by the Indian Government.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 92.4

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
147	198	217	236	218

File Description	Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 29.24

1.3.3.1 Number of students undertaking project work/field work / internships

Response: 357

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni

Response: A. All of the above

File Description	Document
Any additional information (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 83.55

2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
342	314	314	328	331

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
384	348	408	408	408

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 68.05

2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
164	122	131	61	80

File Description

Document

Average percentage of seats filled against seats reserved

[View Document](#)

Any additional information

[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

Malineni Lakshmaiah Women's Engineering College, Guntur gives paramount importance to the student community in providing them learning skills. Our MLWEC provides financial support for the economically weaker students.

Students are classified into various groups based on their performance and competence in the previous examinations such as intermediate and the rank obtained through APEAMCET, the entrance examination which is conducted by the government of Andhra Pradesh for admission into the 1st year Engineering course.

The institution is located in the sprawling campus with magnificent ambience with advanced facilities comprising hostel, canteen, gymnasium, auditorium, play ground, administrative office, grievance cell, anti-ragging committee, library along with laboratories.

For effective delivery of the curriculum, the following process is developed and deployed.

- At the outset, Academic calendar provided by the University is taken as the base for making curriculum delivery plan.
- Immediately following the publication of the JNTUK academic calendar, the institution's head holds meetings with the heads of the departments to prepare a thorough academic calendar for the efficient implementation of the curriculum.
- The Head of the Department allocates the courses to the faculty members as per their expertise and option.

- Teachers are encouraged to impart the curriculum through student centric learning methods, such as presentations, assignments, peer learning, brainstorming, NPTEL lectures, group discussions, workshops, quiz, role-play, seminars, projects, industrial visits, etc., and innovative teaching methods such as Google classroom, QR codes, etc.
- The IQAC performs academic audit twice in a semester to ensure the effective delivery of the curriculum.
- As the attainment of COs is the base for achieving the attainment of Program Outcomes, Program Specific outcome and by which Vision and Mission of the institution, the institution takes all the possible measures to ensure the effective delivery of curriculum and attainment of COs for all the courses

Induction programme:

As a part of introducing the institute and the teaching staff, the Management used to arrange an induction programme for the newly joined 1st year students of Engineering.

Counseling system:

As the fresher's (1st year students) are new to the campus, they must be guided properly in advance once they take admission. The dos and don'ts are also instructed by the mentors.

Slow learners:

The students are classified into two group's i.e., slow learners and Advanced learners. Special coaching and compensatory classes are arranged for the betterment of the students especially for those who are very dull and slow in the learning process.

Special focus is laid on slow learners by giving Assignment questions and previous years external question

papers.

Advanced learners:

The students who distinguish themselves in academics by securing more than 70% marks come under the group of the Advanced Learners. They are advised and guided to undertake additional courses like NPTEL.

An opportunity is provided for advanced learners to be a part of Seminars, Conferences, Workshops, Industrial visits.

File Description	Document
Upload any additional information	View Document

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 12:1

File Description	Document
Any additional information	View Document

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

.As an affiliated college under JNTUK, Kakinada, the role for us in the design of the curriculum is very limited. The College takes all measures to guide the students to be responsible citizens of our Mother Nation. Learning and Analyzing concepts at the college has always been student centric.

College arranges several of experiential and participative learning activities to broaden the scope of education imparted to the valuable students.

Experiential Learning:

Tutorial classes are conducted which gives strength to regular teaching learning process. The students are taught and encouraged to practically test the concepts that they theoretically learnt in the classroom. This

enhances their practical knowledge as well as tests the concepts acquired by them. The Faculty members and Qualified Technical Staff helps the students to conduct experiments. Students are given time slots to do additional and experimental work with the assistance of the highly qualified staff.

An hour time is exclusively allocated for the students to access the library.

Students are also encouraged to do internship during the academic semesters.

The faculty encourages as well as provides students with opportunities to intern with the industry of their choice.

This also allows them to be updated in their respective domains.

The institution imparts the following experiential learning practices to enhance creativity and cognitive level of the students.

- Laboratory Sessions with advanced experiments
- Internship to expand the knowledge on market trends
- Add-on Courses on latest technologies
- Case Studies, Prototype Model Making, Visual Aids usage
- Project development

Participative Learning:

Through these assignments that include intensive interaction and participation, students are seen to grasp concepts better and faster.

This allows the students to feel like she is a part of the class.

As a result, their participation leads to fruitful results.

The online platform also allows them to share notes with their group members, discuss and debate topics of choice based on the uploaded content.

- Tech Fest/Project Expo
- Group Discussion, Debate, Role Play, Quiz
- Technical Seminar Presentation
- Periodical Industrial Visit to get insight into the internal working atmosphere of industries
- Co-curricular & Extra-Curricular activities to trigger self-confidence of the students
- NSS and extension activities

Problem solving Methods:

The students and faculty are motivated to register for online NPTEL Certification courses in addition to their regular curriculum.

Laboratories with Internet Connection allow the students to enhance their knowledge and skills.

- Practical Sessions to get Hands-on experience
- Tutorial Sessions
- Brain Storming sessions
- Special Assignments
- Technical Seminar on contemporary topics cum group discussion
- Peer Group Teaching
- Quiz Sessions

The institution takes significant efforts to explore flipped classrooms with ICT tools and e-resources, such as NPTEL videos, e-books, PPTs, etc which helps to easily transform conventional teaching process to student-centric process.

File Description	Document
Upload any additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

MLWEC imparts innovation and creativity in regular teaching-learning pedagogical methods. The faculty members deliver curriculum content using innovative and creative tools such as ICT tools with e-resources, NPTEL videos, PPT, QR codes, etc in order to cater the attention, interest, curiosity, and passion in their learning activity. Innovative and creative academic practices adopted by the institution are listed below:

Lecture Management System

The faculty members have adopted the lecture management systems such as Google-classroom for sharing their course material, to share lecture videos, google docs, collecting feedback, to allocate assignments, conduct Quiz and collaborate with each other. As all classrooms are availed with ICT tools, LMS is effectively used to cultivate Innovation and creativity in the teaching-learning process.

QR – Codes

As nowadays smart phones are used almost by all Students, QR-codes are effectively used in teaching learning practice to share the study material and to engage the student better in academic activities

Brainstorming/Group Discussion

Brain Storming and Group discussions are conducted in the classroom to explore the innovative & creative thoughts of students.

Industrial Visit/Study Tour

The institution arranges Industrial Visit/Study tour periodically to get insight into Industry culture and trend.

e-Yantra

The institution encourages the students to participate in the Robotics and Embedded System contest conducted by e-Yantra by establishing an advanced center with state of the art facilities to facilitate innovative project development. Under the guidance of highly qualified faculty members, students are trained to develop coding for robotic model development.

Tech Fest

The institution ensures creativity and innovation of the students by providing the platform, Tech fest every year, which includes activities such as technical quiz, project expo, technical presentation, Hands-on project development, website development contest, etc.

Faculty members also update their skills by undertaking online courses such as Swayam MOOCs through NPTEL, etc.,.

The institution is highly focused on providing state of the art education by adopting the latest innovative academic practices to make the students attain educational proficiencies.

File Description	Document
Upload any additional information	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 12:1

2.3.3.1 Number of mentors

Response: 100

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 12.49

2.4.2.1 Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
17	16	12	11	6

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 0.05

2.4.3.1 Total experience of full-time teachers

Response: 4.55

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

Continuous Internal Evaluation plays a very important role in deciding the quality of the education system. The institution strictly adheres to the rules and academic calendar of JNTUK, Kakinada. The institution conducts two Mid-Term Exams, Assignments for all theory and laboratory courses during each semester as per the schedule and pattern of JNTUK, Kakinada. In addition to this, the institution has made significant measures to enhance and evaluate the performance of students by framing significant reforms in CIE at the institute level.

The major reforms are given as follows:

In order to assess the learning levels of the students, course outcomes are well defined as per revised Bloom's taxonomy and mapped with POs and PSOs of the program before the commencement of the semester. Subsequently, an unambiguous lesson plan is charted out by the faculty member concerned in which appropriate content delivery and assessment tools are included in order to meet the defined course outcomes at the end of the semester and ultimately POs & PSOs of the program.

The institution communicates the defined course outcomes, Program Outcomes and Program Specific Outcomes to its stakeholders in all the possible ways.

As the institution has adopted Outcome Based Education, it is keenly focused on practicing student centered learning practices such as experiential learning, participative learning, and problem solving methodologies to assess the learning level of the students.

Question papers for internal examinations are framed to evaluate the different cognitive learning levels of the students using different direct and indirect assessment tools instead of merely checking simple memory recall practice of the conventional evaluation system.

The institution provides conducts several activities and programs to showcase their talents in Co-curricular and Extra-curricular activities.

The institution actively involves the students in NSS activities and other extension activities to understand human values and ethics.

Special attention is given to separately to slow learners and advanced learners in order to uplift their skills and learning levels.

For every 15-20 students, a mentor is allotted to motivate and resolve the issues faced by the students.

The development-Inducing feedback system has been effectively practiced by the institution. Twice in semester feedback is collected from students on each course to evaluate the effectiveness of the regular academic practices.

In addition to this, feedback from various stakeholders such as faculty, employer, alumni, and parents is collected to evaluate and enhance the teaching-learning and infrastructural facilities.

The institution encourages the faculty members to undertake online courses in Massive Open Online Courses (MOOCs) through SWAYAM, FDPs, and other professional development activities to make them remain competitive, contemporary and adopt innovative methodologies in teaching-learning practice.

In view of cultivating, promoting and attaining cognitive, affective, and behavioral learning levels of the students, the institution continuously evaluates the system to ensure its effectiveness.

File Description	Document
Any additional information	View Document

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-

bound and efficient**Response:**

The institution maintains high transparency and robustness in conducting internal assessment exams by adopting several effective mechanisms as given below:

- Schedule of Internal assessment test, syllabus and question paper pattern adhered to the academic calendar and regulations of JNTUK, Kakinada are displayed well in advance before the commencement of the academic session.
- Internal Assessment exams are conducted as per the JNTUK, Kakinada academic calendar.
- The evaluated answer scripts are made accessible to the students within a week to maintain transparency in the evaluation system. Before distributing the papers to students, answer keys are discussed in the classroom for each course. The issues related to awarding of fewer marks, the discrepancy in counting, etc., are resolved by the respective faculty members immediately. Subsequently, marks are displayed on the notice board to maintain high transparency.
- Assignments are given on each unit of the course and suggestions to improve their performance are given after evaluation.
- In a technical seminar which is included as part of their curriculum for final years, the students are encouraged to give a presentation on recent and innovative topics. The technical seminar presentation is assessed based on the following parameters:
 - Novelty in Topic
 - Presentation
 - Report preparation
- Internal marks are awarded based on the presentation in mini and major projects and suggestions to improve their presentation are given by the review committee consisting of project guide, project coordinator and Head of the department.
- Their performance is assessed on various parameters such as presentation skills, technical skills, communication skills, and viva-voce. Internal marks are displayed immediately after the

evaluation.

- The information about the internal assessment evaluation process is communicated to students during the orientation program for first-year students.

File Description	Document
Any additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

The Institution has clearly stated Program Outcomes, Program Specific Outcomes, and Course Outcomes. The following mechanism is followed by the institution to communicate/disseminate outcomes to the teachers and students.

College website: <http://www.mlewguntur.com>

Department Notice Boards

Principal Chamber/HOD chamber and all central facilities

Student e-Hand Books

All Laboratories

College prospectus

Placement brochurs

Department magazine, Department Newsletter, College Magazine

Display at the Prominent Locations of the Campus

Building entrances

Course instructor defines Course Outcomes for all the courses using revised Bloom's Taxonomy. The Department Advisory Committee and the Head of the Department review and approve the Course Outcomes (CO).

Each Course Outcome is mapped to Program Outcomes and Program Specific Outcomes in terms of their correlation. Three levels of correlations are used for mapping COs with POs and PSOs, where, 1 is used for indicating low, 2 for medium and 3 for a high level of correlation. The contribution of a course to each PO/PSO is expressed in terms of the average relevance of COs mapped to that particular PO/PSO.

Course Outcomes of all courses, Program Outcomes and Program Specific Outcomes of all programs are listed in attachments

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

The assessment methods are of two types: 1. Direct Assessment 2. In-Direct Assessment. The Data collection for CO attainments and the tools supporting the methods of assessment are shown in Table 1 and Table 2 respectively.

Course Assessment Tools and Weightages

Table.1: Course Assessment Tools and Weightage for Direct Assessment

Course	Assessment Tool			Weightage	Total	
Theory Courses	CIE	Descriptive Exam (1)	Mid Test 1	Final internal Marks (30M)=(best Mid marks X 80% + Other Mid marks X	30%	100%

	Quiz (Q1)	Mid Test 2	20%)	
	Assignment (A1)			
	Descriptive Exam (2)			
	Quiz (Q2)			
	Assignment (A2)			
	SEE		70%	
Laboratory Courses	CIE		30%	100%
	SEE		70%	
Technical Seminar	CIE		100%	100%
Project Work	CIE		30%	100%
	SEE		70%	

Table.2 Tools and Weightages for Overall Attainment

Courses	Assessment Methods	Assessment Tools	Weightage	Total
For all Courses (Theory, Practical, Technical seminar, and Project work Courses)	Direct Assessment (DA)	Continuous Internal Evaluation(CIE)	80%	100%
		Semester End Exam (SEE)		
	Indirect Assessment (IDA)	Course End Survey (CES)	20%	

CO Attainment of each course is computed based on the predefined targets as per the given table 3:

• **3: Attainment levels Vs Target Ranges for CIE**

Attainment Level	Range of Target
Level 1	65% - 75% of students scoring more than 50% of marks
Level 2	75% - 85% of students scoring more than 50% of marks
Level 3	85% - 100% of students scoring more than 50% of marks

Table.5: Attainment levels Vs Target Ranges for SEE

Attainment of Program Outcomes and Program Specific Outcomes

The assessment methods and tools for PO and PSO attainments for direct assessment are tabulated below **Table 4:**

Course	Assessment Tool	Weightage
Theory Courses	Descriptive Exam (1) Mid Test (1)	30%

	CIE	Quiz (Q1)	Mid Test (2)	
		Assignment (A1)		
		Descriptive Exam (2)		
		Quiz (Q2)		
		Assignment (A2)		
		SEE	70%	
Laboratory Courses		CIE	30%	
		SEE	70%	
Technical Seminar		CIE	100%	
Project Work		CIE	30%	
		SEE	70%	

Indirect Assessment:

The following Surveys/Feedbacks are conducted during the course of study of program in each semester or end of the program. Evaluated data in terms of attainment percentages of the students is collected from the Course/Program coordinator.

Table 5 : Summary of Surveys Conducted:

S.No	Survey	Frequency of Assessment is done
1	Program Exit Survey	Once at the end of Program
2	Employer Feedback	Once at the end of Program
3	Extra Curricular/Co-curricular Activities	Once at the end of Program

Table 6: shows the assessment tools and weightages used to evaluate the overall attainment of program outcomes and Program Specific Outcomes from all the courses through direct and indirect assessment tools.

Courses	Assessment Methods	Assessment Tools	Weightage	Total
For all Courses (Theory, Practical, Technical seminar, Mini project and Project work Courses)	Direct Assessment (DA)	Continuous Internal Evaluation(CIE)	80%	100%
		Semester End Exam (SEE)		
	Indirect Assessment (IDA)	20%		

File Description	Document
Upload any additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 93.68

2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
280	274	292	249	144

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
290	308	311	256	157

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Upload any additional information	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.92

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 2529274

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
368695	408442	468788	517697	765652

File Description	Document
List of endowments / projects with details of grants	View Document
e-copies of the grant award letters for sponsored research projects / endowments	View Document
Any additional information	View Document

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 2

3.1.2.1 Number of teachers recognized as research guides

Response: 2

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 100

3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
3	3	3	3	3

3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
3	3	3	3	3

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Any additional information	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

Response:

The institution has set up an innovation ecosystem to foster a culture of innovation among the young talents in the campus. The institution keeps up the ecosystem more vibrant and conducive with state of the art infrastructure and suitable scholarly human resources.

To propel innovations in engineering field, the institution has established an incubation centre, Entrepreneurship Development Cell.

Institution's Innovation Council (IIC) Membership

The institution has become an active member in Institution's Innovation Council under the aegis of MHRD's Innovation Cell to promote innovation through multitudinous modes leading to an innovation promotion eco-system in the campuses.

IIC team members are very active to conduct various innovation and entrepreneurship-related activities, identify and reward innovations, arrange seminars/ workshops/ interactions with investors, entrepreneurs, researchers, scientists and other professionals, network with peers and entrepreneurship development organizations, and organize Hackathons, Workshops, etc.

Initiatives for the creation of knowledge

We used to conduct boot camps for introducing new technologies to the students, Ideathon for brain storming sessions for creating certain ideas to solve the problems facing by the local people, Hackathons for creating and developing the solutions using technology.

Malineni's tireless journey to inspire young minds and inculcate latest technologies in their education has entered an MOU with Indo-European Skills Centre for Mechatronics and Robotics, in association with German University in collaboration with APSSDC, Govt. of A.P. established applied Robotic control lab.

Initiatives for Transfer of Knowledge

The institution publishes all its creations such as outcome of Hackathons, tech fests etc..

Research Committee

Research committee consisting of highly qualified and experienced professors encourages faculty members to submit research proposals to various funding agencies. It guides and motivates faculty and students to register for Ph.D and to publish/present their research work in reputed journals /various national and international conferences. Research Committee monitors and ensures the innovation ecosystem of the institution stays updated and contemporary.

Motivation towards Intellectual Property Rights (IPR)

The institution conducts several IPR related programmes to educate and train the students and Faculty on IPR & filing the patents

Library Resources

The institution has a subscription to IEEE, ASME, ASCE, and J-GATE, International Membership of DELNET, e-Journals and 235 Indian Journals/magazines to promote research and development activities in the campus.

Entrepreneurship Development Cell (EDC) was established on 2017 to empower and Inspire Girl Students to take Initiatives and Accept Responsibilities to thrive in the Challenging World. The cell undertakes several activities for student development wherein the student develops a spirit of Entrepreneurship. Entrepreneur culture was developed by conducting Interactive Sessions with CEO's of Startup Companies, guest lectures by successful entrepreneurs

File Description	Document
Upload any additional information	View Document

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 45

3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
10	15	15	04	01

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 8**3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years**

Response: 16

3.3.1.2 Number of teachers recognized as guides during the last five years

Response: 2

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years**Response: 1.43****3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
44	52	25	13	6

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**Response: 0.35****3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
19	5	7	2	1

File Description	Document
List books and chapters edited volumes/ books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The institution fosters holistic education that makes the students intellectually, socially, emotionally and ethically strong. In order to nurture them with social values and responsibilities, the institution encourages the maximum number of students for active participation in extension activities and outreach programs.

National Service Scheme (NSS)

NSS unit of our institution conducts many extension activities for the betterment of the neighbourhood communities in addressing their social issues. NSS Unit has received a number of awards and appreciations for their well-organized efforts made by MLWEC – NSS volunteers and Program Officer in the programs, such as

Blood Donation Camp

Village Adoption for development

Haritha haram

Swatch Bharat activity

Orphanage Programs

Health Awareness Programmes (Such as Covid Vaccine)

Special Camp in Pulladigunta Village

In the Special Camp at Pulladigunta Village, MLWEC – NSS volunteers have created awareness on child labour issues and counselled & guided them to continue their studies. As a part of this special camp, bags and books were also distributed to encourage the financially deprived students. A team of doctors and MLWEC – NSS volunteers organized health camps to prevent and eradicate vulnerable diseases that spread due to sanitation and cleanliness issues. Students had actively involved in this camp and cleaned the village to create cleanliness awareness among the locale.

Collaborative Extension Activities

We encourage the students to involve in outreach programs conducted in collaboration with local police, doctors of Government Hospital, Election Commission of Andhra Pradesh. We feel very proud that many of our students involved in electoral literacy campaigns and electoral booths to facilitate the polling process.

Fit India Movement

Our students have participated in Fit India Movement which is aimed at encouraging people to give priority to sports and fitness. Our students have conducted live stream of Shuttle tournaments to promote fit India movement in youth. They were awarded a memento and a pair of shoes to the winners and runners.

The institution motivates the faculty and students to participate in need-based, participatory initiatives with local communities, and that range from infrastructure development, health, sanitation, education, women's empowerment and enabling access of the marginalized to entitlements provided under diverse schemes. The participation of the students sensitizes them towards the social issues and challenges faced by the weaker section of the locality; enables them to develop an empathetic understanding of the same and facilitate their initiation in civic engagement.

File Description	Document
Upload any additional information	View Document

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 88

3.4.2.1 Total number of awards and recognition received for extension activities from Government/

Government recognised bodies year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
32	47	05	03	1

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 41

3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
14	7	8	6	6

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 38.97

3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1044	432	335	294	192

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 146

3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
32	48	44	14	08

File Description	Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 84

3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
20	28	17	11	08

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

NAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

The Malineni Lakshmaiah Women's Engineering College – a temple of learning was established in the year 2008 affiliated to JNTU, Kakinada in a green lush land away from the hustle and bustle of the city in around 5.06 acres of beautiful landscape. MLWEC offers 5 UG and 3 PG programs. This institution has given a highest priority to enhance the infrastructure and physical facilities. Every year a fair budget is allotted to the IT facilities development and all the IT equipments are periodically checked especially computer, hardware labs, class rooms, seminar halls and Library etc. The college provides a serene and tranquil environment to the students, boosting their potential and preparing them in all aspects to face the global challenges. As per the AICTE and JNTU, Kakinada norms this institute has well developed laboratories in all departments.

The available facilities are mentioned below

Class Rooms:

This institute has a 28 class rooms, each room is spacious and having the admeasuring area of 79.013 Sq.m. All the rooms are ventilated and equipped with innovative learning ICT tools like LCD projector, projector screen etc.

Seminar Halls:

This institute has adequately spacious and well furnished three seminar halls with a seating capacity of 250, 180 and 150 respectively. To serve the various activities in different departments throughout the year seminar halls are equipped with projector, audio, video systems, amplifiers and public addressing systems.

Library

Institute has a Central Library located in two floors with an area of 430 Sq.m and a seating capacity 150. The digital library is equipped with 15 PCs connected with LAN and WI-Fi to access the internet and to streaming NPTEL lectures and using e-Resources. It is kept opened from 8:00 AM to 6:00 PM in all working days.

Counseling Rooms/Tutorial Rooms:

MLWEC has a sufficient number of Counseling rooms/Tutorial Rooms to take special care and encourage the slow learners in order to clear all the curriculum subjects. Tutorial classes are conducted once in a week for every subject to train students.

Computer/Hardware Laboratories: MLWEC has adequate and well equipped Laboratories in all departments.

S.No	Particulars of Equipment	No.of Units
1	Desktop Computers	550
2	Servers	5
3	Laboratories (Computer/Hardware)	24
4	Printers/Scanner	16
5	Projectors	35
6	CCTV Cameras	16
7	Routers	16
8	DVD Writers	4
9	Laptops	4
10	UPS	7

Training and Placement Cell:

The T&P Cell gives Campus recruitment training along with soft skills and personality development skills which are essential for employment and successful career.

Center of Excellence

Malineni's ARC is a centre of Excellence in Robotics to inspire young and Dynamic Women Technocrats. The Center supports Hands on Training, Learning by Doing with the Applied Robot Control Tools to explore their Creativity in Mechatronics and Robotics.

Cells:

To improve/empowers the quality of learning, research and innovations among women engineers, this institute has constituted various cells like Grievance Redressal Cell, R&D cell, IQAC, Career Guidance cell, Training and Placement Cell etc.

File Description	Document
Upload any additional information	View Document

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

MLWEC has adequate facilities for cultural activities, sports and games. The institute has separate committees to organize these facilities headed by coordinators, staff and students from different

departments. The committee and their responsibilities are given below. These committee members promote the awareness regarding the Arts & Cultures, Sports and also motivate the student's participation in different events. The Students are encouraged to participate in zonal tournaments headed by Physical Director and various Co-Curricular Extra-Curricular activities.

Every year, the college holds cultural events like Sankranthi, Vinayaka chavithi, Induction and Farewell celebrations etc. and every student is encouraged to take part in these events including indoor and outdoor games. Every year separate annual budget has been allotted for the smooth conduction of sports and cultural facilities. The Coordinator of the committees decide the date, time and agenda of the program, estimation of budget, and other necessary actions from the allotted budget before commencement of any cultural event.

The Sports & Games Committee functions and responsibilities are

- To prepare action plan every year,
- Indicate requirement of sports items and maintain all types of sporting inventor.
- Maintain record of sports and games events attended by students within the college, within the university and outside at the region/state/national level and their achievements/awards and so forth...

The college has a recently developed gym equipped with Treadmills, Stationary bicycles, Dumbbell sets, Skipping Ropes etc. Throughout the year all the sports facilities are made available to both staff and students. The college has a playground area with a Throw ball, Tennikoit and shuttle. The college hosts intra college events time to time. The indoor and outdoor games various equipment's are stored in sports store room. The courts, sports and games equipment are periodically maintained under the supervision of the Physical Director. The college is providing ambient environment for holding the event yoga on the international Yoga Day celebrations.

The Available indoor and outdoor facilities with particulars are given below

S.No	Facilities	Particulars
1	Indoor Facilities	Caroms Chess Chinese Checkers
2	Outdoor Facilities	Throw Ball Shuttle Tennikoit Ring Short Put Kabaddi Discus throw

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 31

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 50.63

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
90.06	112.98	147.73	153.73	38.36

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

The **Central Library and Reading Room** provides Books, Journals, Encyclopedia, Magazines and News Papers for the Students, Faculty and Non-faculty for enriching the knowledge. The e-Books, e-Journals and e-Database are available for all stake holders in the campus.

The Library possesses 18,267 volumes of books for catering the needed. 51 print journals share the updated technology with the stakeholders. 689 volumes additionally are available under Social Welfare Book Bank on behalf of Government of Andhra Pradesh. The reference services are for journals, magazines, previous project reports, encyclopedias, dictionaries.

New batches of students and faculty have Orientation Programmes regarding the functioning of Library and Reading Room along with the provision of Library Resources and Services.

1860 e-Journals and e-books are subscribed under Developing Library Network (**DelNet**) for accessing by the library users. The subscription of **National Digital Library (NDL)** provides access to data base. In the **NDLI Club**, presentations of the course and video lectures are made available for library subscribers. These are provided by MIT Open courseware, NPTEL, SWAYAM, MOOCs, Spoken Tutorials, You Tube, Faculty Contribution and EduSat. Also this Reading Room provides access to scholarly publications from 37,547 resources. The 5,004 indexed resources with 30,591 papers are accessible. The papers are from IEEE Xplore, ACM, SAGE Journals, Springer, Taylor and Francis, Oxford University Press, Wiley online etc.

The **e-SodhSindhu** negotiated **J-Gate platform** provides access to 81,871 e-journals with 21,216 full-text accessible journals.

The Library and Reading Room has automation by open source application **KOHA** with IP: 192.168.0.214. The automation gathers data of circulation which includes Issues and Returns. The borrowing of books is fully automated by Barcodes. Also transfers, over dues, day-to-day usage and budget can be obtained. The Barcode usage as Gate Register, for Issues and Returns, for Check –In and Check – Out are by KOHA.

The **e-Library** is equipped with 16 Desktops with IP: 117.211.160.53 @ 100Mbps fast and seamless Internet access. The subscribers can fully access the e-resources viz., e-journals, e-books, NDL, NPTEL, J-Gate, YouTube, etc.

NPTEL Data base is readily available for all the users. There are a total of 34 video courses and 30 web courses of CSE department and 30 video courses and 21 web courses of ECE department, 15 video courses and 30 web courses of S & H as well as 12 video courses and 8 web courses of MBA department can be accessed through e-Library. There are 77 free e-books of CSE & IT department and 117 e-books of ECE department can be accessed through e-Library, in addition to that students can access resources through web.

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 1.71

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0.13	1.26	2.39	2.73	2.02

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e-journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year**Response:** 20.82**4.2.4.1 Number of teachers and students using library per day over last one year****Response:** 275

File Description	Document
Details of library usage by teachers and students	View Document

4.3 IT Infrastructure**4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

MLWEC always provides keen update and top priority on IT facilities (such as internet ICT facilities, Student Computer Ratio, LCD Projectors, etc.,) to provide state of the art infrastructure for effective teaching-learning process. At the beginning of the academic year as per curriculum the updating/replacement or new equipment purchasing is collected from each department. The Internet and Wi-Fi facility is provided to all HODs and staff in order to perform the academic & administrative works. Currently, the institute has 550 systems located in various laboratories to meet the requirements of curriculum, beyond the curriculum and to make students industry-ready. The academic and administrative activities, CCTVs, Servers etc are supported through an internet and WI-Fi bandwidth of 300Mbps.

The IT infrastructure of the college is maintained by trained and experience professionals. The Computer Centre was established in 2008 which is a Central Facility of the College. It is headed by senior faculty member belonging to the Computer Science and Engineering who is well supported by an experienced team of Network and System Administrators and Software developers.

The main objective of this computer centre is to provide the robust hardware/Software facilities, to provide securely maintenance of academics, examinations, administration activities etc. This centre provides the uninterrupted continuous services to all activities in departments, examination section, central library, CCTVs, Laboratories etc. It gives a single point support to maintaining, designing, interfacing and installing software's which are helpful to improve transparency, productivity and to extend the services anywhere and anytime in the campus. It maintains the complete web services, online examinations, software and networking usage etc.

MLWEC always seek the advices from staff and students on maintenance, in order to take the appropriate actions wherever is required. The working condition of the present equipment, student – computer ratio and its availability is considered to updation and enhancement of IT infrastructure. To ensure better IT Infrastructure utilization and to meet the user requirement regular assessment (for UPS, Generators, Software Applications, Computer Hardware equipment, CCTV, Switches, LCD Projectors, Internet facility etc,) is done periodically.

All the departments have scanners cum printers. The Exam branch has a high-speed multi tray scanner cum printer. A scanner cum printer is available in Director, Principal, all HODs, and other higher administrative officials. Printers are also available all departments in respective areas for staff utilizations. The updation of software and hardware is also done as per requirement based on curriculum. Institute also enabled Bio-metric Attendance System; CCTV cameras for campus surveillance and these are focused by network & administrate team.

The maintenance of computers, and installation of software are done by programmers whereas, hardware and internet related issues are handled by hardware and networking professionals.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 2:1

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Response: A. 750 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 46.75

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
86.47	83.72	68.69	84.58	163.89

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View Document
Audited statements of accounts	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

- The institution has structured and Well-developed system for maintaining and utilizing the available facilities.
- The institution has facilities like Class Rooms with LCD Projectors, Hardware and Software Laboratories, Counseling Room, Seminar Halls with Audio/Video Systems, Central Library, Department Libraries, Sports facilities, T&P cell, electrical maintenance, equipment purchase procedures, transport facilities, water & wastage management, Center of Excellence Lab, Grievance & redressal Cell, Wi-Fi connectivity etc...
- The institution has its own policies and procedures to maintain the above mentioned facilities.

1. Physical Maintenance:

Malineni Lakshmaiah Women's Engineering College has a Network administrator for addressing internet and networking problems, plumber, electrician to prevent break down of facilities such as Solar Power Distributer, lift, generator, Wi-Fi, etc.

Maintenance of Classrooms, furniture and Laboratories:

The Classrooms, laboratories, campus ground, staff and student's amenity areas, Tuck Shop, Cafeteria are regularly cleaned and maintained by a supervisor. Supporting staff are allotted for housekeeping and security services. The classroom furniture's like benches, doors, chairs and black boards are maintained regularly.

2. Academic facilities:

Laboratory Maintenance Committee:

Regular maintenance of equipment as well as repair of equipment is important for proper

functioning of engineering laboratories. Adequate laboratory facilities exist for carrying out all the experiments as per curriculum. The Strict procedure is followed to purchase new equipment or to repair old equipment/ to service. In the laboratories faculty in-charges and technicians has been allotted for regular monitoring and maintenance. Every year Annual Proposals are maintained in order to purchase New Equipments, Old equipment Repair or Servicing.

1. Preventive maintenance is carried out to reduce the possibility of breakdown.
2. As per the requirement minor repairs are carried out by the lab technicians.
4. In case of Major repairs, it will be forwarded to the external service persons through proper channel.

Based on requirement in-charges will send a proposal signed by HOD's to the Principal through a proper channel. Before the commencement of each semester the Time Tables of each department are prepared accordingly for best utilization of resources and thereby the effective utilization charts of labs are also prepared.

Library Maintenance:

MLWEC has a Central Library that plays a vital role in providing resources to all the faculty and students. Online access to the e-resource of the Digital Library portals DELNET, IEEE, NDL, eGate and Swayam. These e-resources are IP enabled, can be accessed anywhere in the campus. Library is provided with internet facility at the speed of 300Mbps.

To facilitate faster issue and return of books and for easy tracing of the books issued, the college library books are being issued/returns through the Bees campus soft with bar coded technology with koha software.

The Periodical Sections of the library contains both Technical and Non-Technical Journals of National and International origin are displayed and kept available for the reference of students and faculty members. The subscriptions are renewed accordingly by the librarian after securing permission from the Principal. All the department HODs during every semester submit an indent for new books as per the JNTUK curricular requirements and they are procured by the librarian from the publishers. Annual stock verification is conducted and library is restocked as per requirement.

3. Support Facilities:

Sports Facilities:

This institution provides Sports facilities of both in-door and out-doors games in the campus. The In-door game includes Table Tennis, Caroms, and Chess etc. Play ground for out-door games like khoko, Throw Ball, Shuttle, Kabaddi, Tenny Coid.

Physical Education Director (PD) is appointed to trained the students in different inter and intra college sports events. PD along with particular department event coordinator will discuss sports related issues such as planning and organizing of events, training, short listing of who are interested

in sports and necessary preparations for the sports activities.

Student and staff members of the college utilizes this facility to participate in the inter college games and sport events held annually and also to represent the college in inter-college sports competition.

Gymnasium:

The institute has a gymnasium equipped with Treadmills, Stationary bicycles, Dumbbell sets etc. All the courts and sports and games equipment are periodically maintained under the supervision of the Physical Director.

Transport:

The institute offers bus facility to faculty and students from the various locations of the inside and outside of the city. The institute has experienced drivers and buses are maintained periodically. The transport in charge takes care of the drivers and schedules the bus routes and maintains the buses in an effective and efficient manner to ensure safety of all the commuters.

First Aid & Ambulance Facility:

The management is giving highest priority about the health of students and staff. Therefore the ambulance facility is arranged in any emergency and immediate requirements. To monitor the staff and students health campaigning are arranged alternatively in campus. One experienced doctor is appointed by the institution and doctor is always available to cater the needs of the students, staff. All the Laboratories are maintained by First aid facility in case of emergency.

Fire Safety Equipment:

Fire Extinguishers are located at various places in the buildings and Fire Safety mechanisms are followed in the buildings. All the buildings are equipped with fire fighting system consisting of fire extinguishers, hose reel, terrace tank, pumps, and water buckets. All the exit routes are kept opened during the working hours.

The following are the other facilities provided by the institution

- Campus is having canteen & mess Facility to provide the services to the hostlers, faculty and day scholars. Experienced supporting staffs like servers, cooks and cleaners are hired to maintain the hygienic in the canteen & mess.
- This institute is having several guards with 24/7 around the campus to maintain security. In strategic places surveillance cameras are installed.
- RO Plant is maintained regularly to provide 24/7 drinking facility in the campus. Refrigerators are also available for cool water supply in the summer.
- Pest Control Measures are Taken
- The garden and lawns are well maintained.
- RO Plant is well maintained.
- Solid waste, e-waste and bio medical waste are managed through MoU's
- In pandemic, the college is regularly sanitized.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

NAAC

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 69.56

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
847	759	824	850	703

File Description

Document

upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)

[View Document](#)

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 1.6

5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
20	17	20	22	13

File Description	Document
Upload any additional information	View Document
Number of students benefited by scholarships and freships institution / non- government agencies in last 5 years (Date Template)	View Document

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Any additional information	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 86.86

5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1085	1024	994	975	897

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 50.38

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
139	153	155	137	85

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 18.36

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 56

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	View Document
Any additional information	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 93.64

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
12	14	12	19	1

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
12	16	14	20	1

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	View Document
Any additional information	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be

counted as one) during the last five years.

Response: 47

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
6	10	11	13	7

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Response:

5.3.2: Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, student's representation on various bodies):

Internal Quality Assurance Cell - IQAC:

IQAC cell involves student representatives in the development of quality culture in academic and other areas for the betterment of the students and institution.

Internal Complaints Cell:

It shall be the duty of the employer to prevent or deter the commission of any act of sexual harassment at the work place.

Anti- Ragging Cell:

Student representatives in this cell create awareness about Anti Ragging and ensure a friendly environment between juniors and seniors.

NSS Committee:

It aims to involve the maximum number of students in NSS activities.

Arts & Cultural Committee:

Student representatives of this committee encourage and promote various sports and cultural activities.

Grievances and Redressal Cell:

Student Grievance Redressal Cell involves student representatives in resolving issues and grievances of students

SC/ST Cell:

Scheduled Castes (SC) and Scheduled Tribes (ST) have been identified as the two most backward groups of Indian Society. They include all the castes, races or tribes, which have been socially, economically and educationally backward.

Minority Cell:

The minority cell basically helps minority students including Christian, muslims, Jain, Sikh etc in improving their academic performance and extracurricular activities.

OBC cell:

The college takes special interest in facilitating financial support to students from these communities from government agencies and other sources. The cell is always engaged to solve the various problems of OBC students.

Disciplinary Committee:

Student representatives of this Committee help to ensure a calm and peaceful academic atmosphere on the campus and to avoid physical confrontation among students.

Alumni Committee:

The MLEW Alumni Student Committee strives to develop connections among alumni, current students, faculty and management laying the platform for all stakeholders to share knowledge, gain focus, improve and develop.

Training and Placement Committee:

The Placement Committee of the college, which plays a vital role in measuring a smooth & efficient placement process, co-ordinates all the efforts and activities directed towards ensuring utmost satisfaction to the needy students for their placement.

Women Empowerment Committee:

The institution has established a Women Empowerment Cell to create awareness on women's right and protection of women faculty and students and to make the college campus a safe place for them.

Transport Committee:

The committee members discuss on the following aspects and makes necessary suggestions. 1. Providing and scheduling transport facility for Students and staff for different routes.

2. Processing new route or change in existing routes for students and staff.

3. Providing additional transport facility to students/staff that are staying in the campus beyond working hours for placement/project or course activities.

In addition to the above committees, student representatives are included in the Hostel Committee, Canteen Committee and Transport Committee to ensure its effective functioning and resolving issues if any. Active involvement of the students in various committees significantly leads to their holistic development.

File Description	Document
Upload any additional information	View Document

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 20

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
3	32	23	30	12

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

5.4.1: There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

It is a matter of pride that alumni of MLEW have a strong placement record which explains that our former students occupy various key positions and have a strong eminent history in the different walks of their life.

The Institution has a registered Alumni association to strengthen and network among the alumni, faculty and the management.

It conducts formal Alumni association meetings every year to reunite with their friends, faculty members, and management, revitalize their memories and share market trends & needs to the prospective graduates.

The institution gives high regard to the suggestions of alumni and utilizes the services for the development of the institution in all the possible ways. The institution has included our alumni as a significant part of many of the notable academic and administrative bodies such as Internal Quality Assurance Cell, Department Advisory Committee, etc.

The institution gives high priority to make the Alumni association very active as engaged alumni are the Brand Ambassadors and loyal supporters to keep abreast of the institution.

Our Alumni play a significant role in

- Provide Career guidance, training services, and invited talk,
- Promote R & D activities, projects, and consultancy
- Facilitating internships, industrial visit, campus interviews for students
- Extend the network of professional contacts.
- Promotion of the institute's reputation in society.
- Get real insight into the growth of the institution

Apart from formal alumni association meetings, the institution also engages the alumni support in many ways such as collecting suggestions, feedback on existing curriculum, updates on emerging trends, etc through various networking platforms like LinkedIn, Face book, Twitter, Whatsapp, etc.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: A. ? 5 Lakhs

File Description	Document
Upload any additional information	View Document
Link for any additional information	View Document

NAAC

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

The Vision and Mission of the college are:

Vision:

To be a pioneer institute in engineering education, fostering academic excellence, and producing empowered women engineers, blended with ethics and values, to serve the society

Mission:

- To achieve academic excellence through innovative teaching-learning practices
- To inculcate self-discipline, ethics and values amongst the learners
- To bridge the gap between industry and academia through industry institute interface.
- To promote higher education, research and inculcate entrepreneurial attitude amongst the learners.

Nature of Governance:

Institutional governance is completely in line with the vision and mission of the institution. Malineni Lakshmaiah Women's Engineering was established by Malineni Perumallu Educational Society in 2008 aiming at becoming a pioneer in technical education in the private sector.

Governing Body (GB) is the highest decision making body of the Institute and it constitutes as per the guidelines of University Grants Commission (UGC). The GB consists of Management representatives, Government Nominee, JNTUK Nominee, Industrialist, Educationalist, and Faculty members of the College,

Principal is the Ex-officio member secretary. The GB ensures preparation of Strategic Plan through bottom up approach involving all the stakeholders and implementation through top down approach. The GB through the principal ensures that all decisions on the matters such as admission, budget, infrastructure, Teaching-Learning Process and placements are in tune with Institute's Vision, Mission and Quality Policy.

The Principal of the Institution in consultation with Heads of the Departments and functional in-charges formulates the policies & plans and submits the same for the approval of the management on regular basis. Administrative & Academic responsibility is distributed at various levels of decentralized organizational setup.

Academic Council

The college has constituted an Academic Committee with frames action plan of the college with regards to physical and academic development, with the Principal as the Chairman of the committee.

Internal Quality Assurance Cell (IQAC)

Internal Quality Assurance Cell is constituted with all the stakeholders and conduct meetings and take necessary decisions and initiatives to ensure the improvement in the overall quality of education.

Committees/Cells

The college has different committees, sub-committees and cells comprising of teachers from different departments for effective functioning.

Role of Head of the Institution and involvement of faculty in the implementation of the perspective plan:

The Principal is the administrative and academic head of the college; he is the Chairperson of all the academic bodies including the IQAC of the college. He coordinates with all the Heads of Departments for smooth functioning of the academic activities; likewise, he also co-ordinates with the Ministerial Staff for effective administration.

The faculty members are nominated as members of various committees such as IQAC, CAC, DAC, PAC, Anti-Ragging Committee, Disciplinary Committee, Committee for SC & ST, OBC cell, Minority Cell, Grievances Redressal Cell, Women Empowerment Committee, Internal Complaints Committee and Institution Innovation Council, Arts and Cultural Committee, Sports and Games Committee etc.

The faculty members actively involved in organizing committees of various college events like Annual day, Tech Fest, Alumni day, Sankranthi Sambaralu etc.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management**Response:**

Decentralization and participative management

- The Principal is the administrative head of the institution. However, for effective administration and efficient implementation of the academic activities, the institution has formed various committees and cells comprising of faculty members and stake holders to fulfill the objective of providing better learning opportunities.
- The formation of institutional committees like Governing Body, Finance Committee, IQAC, College Academic Committee, DAC, PAC, Anti- Ragging Committee, Internal Complaints Cell, Grievance and Redressal Committee, OBC Cell, Committee for SC/ST, Minority Cell etc. is the result of decentralization of work and participative management.
- The head of the institution periodically organizes meetings with HODs and senior faculty members for the improvement in academic activities, R & D activities, training and placement activities, curricular, co- curricular and extracurricular activities and establishment and up gradation of laboratories as per curriculum.
- At the department level, the HODs decentralize administrative/academic activities by assigning responsibilities to faculty members.
- Principal & HODs are authorized to spend an amount of Rs. 50,000/- and 5,000/- respectively.

Case Study: Decentralization and Participative Management to organize institutional level event “Annual Techfest (Rapsodiz)”

- Head of the Institution identifies and deposes a senior faculty member as convener to organize Annual Tech-Fest (Rapsodiz).
- The convener organizes a meeting with HODs and senior faculty to discuss about various activities to be conducted as part of the event.
- HODs conduct meeting with the faculty members of respective departments and come out with the proposal of set of activities to be conducted with budget and other requirements to the convener.
- Convener submits the proposed budget to the head of the institution.
- Head of the Institution discusses the budgetary requirements with the finance committee for approval.
- Convener is communicated with the budget allocated for conducting various activities in each department.
- After the completion of the event, HODs submit the statements of expenditure incurred, to the convener.
- Convener submits the above statements to the head of the institution and in turn head of the institution sends it to the account section for verification and settlement.

File Description	Document
Upload any additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

Response:

The institute has developed a strategic plan in the year 2016 for five years with the help and suggestions from all the stakeholders. The strategic goals of this plan were:

- Strategy -1: Good Governance
- Strategy -2: Autonomous Status
- Strategy-3: Accreditation & Certification
- Strategy-4: Infrastructure and facilities
- Strategy-5: Teaching and Learning
- Strategy-6: Industry & Institute Collaborations
- Strategy-7: Training & Placement, Internships & Career
- Strategy-8: Research & Development
- Strategy-9: Alumni engagement and interaction
- Strategy-10: Library & information centre
- Strategy-11: Entrepreneurship

Review

The institution has 22 active committees which work constantly towards overall student development. High level committees constitute governing body, statutory body, Principal, HOD's, Controller of examination, IQAC and various low-level committees ensure overall development and growth of Institution along policy monitoring. Bottom-up approach ensures decision making, policy making, overall development to be in synchronization and inclusion of teachers, administration staff at all levels for institution growth. Successful implementation of the processes is monitored at various levels by evaluating the students' performance by teachers, teachers' performance by HOD and HODs' performance by the Principal. The co-ordination of IQAC in the various monitoring processes also helps in the review processes. Effective leadership involves a smooth functioning by Internal Quality Assurance Cell whose primary entity is to monitor the quality activities of the institution. GOB timely monitors the quality activities of IQAC regularly and periodically and gives timely suggestions whenever required. The decentralization of governance into various committees primarily focuses to strengthen the administration and strive for institution progress towards realizing the vision, mission adhering to Quality Policy. Hence the Governing Body implements good governance to ensure participative and active involvement of various stakeholders for overall progress of the institution.

File Description	Document
Upload any additional information	View Document
strategic Plan and deployment documents on the website	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

Response:

Malineni Lakshmaiah Women's Engineering was established in the year 2008, by Malineni Perumallu Educational Society registered under the Andhra Pradesh registration of Societies Act. XXI of 1860 at Singarayakonda and bearing Society No. 388/1991 dated 9th October, 1991.

The Governing Body is the supreme administrative body of the institution and it has been constituted comprising members from the society, AICTE, Industry, JNTUK, A.P. State Technical Education conducts at least two meetings in an academic year.

Functions of the Governing Body:

All policy decisions are taken by the Governing Body, few of them are as follows:

- To participate and approve the vision and strategic mission statements of the Institute.
- To monitor and manage the financial strategy of the institution in line with the recommendations of the finance committee.
- To approve the annual budget of the Institution.
- To monitor the progress of academics, and other related activities of the Institute.
- To provide facilities or equipment for the overall development of the Institution.
- To ensure the implementation of the recommendations of the Governing body.

The policies and procedures on academic matters & administrative setups are taken care by various committees/ cells.

Administrative Setup

The institution has a well laid administrative setup as per the norms of the AICTE and the UGC. The whole system is build around to provide student centric learning with the fundamental concept of making best students. Involvement of each and everyone in the decision making at their respective levels is ensured through decentralization and delegation of powers.

1. Governing Body is the Apex body of the institution which mainly looks after overall growth of institution.
2. The Principal is the head of the institution and associates between the Management, Staff & Students.
3. The Principal is to take financial decisions in consultation with the management, which are related to purchase of lab equipment, funding for seminars, workshops, conferences, Department expenditure etc.
4. Head of the Department is to take care of the functioning of the respective Department as per the policies & norms of the Institution.
5. The Administrative Officer is to look after the day-to-day administration of the college office and helps the Principal in obeying with the regulatory bodies.
6. Every committee formed has a coordinator and members taken from all the departments. The coordinator ensures that the committee meets its roles & responsibilities.
7. The committees formed at departmental level report to their respective Head of the Departments who in turn will report the findings of the committee to the Principal for further necessary action.
8. The management has always welcomed the views and suggestions expressed by the faculties in taking institution ahead.
9. The major function of various committees are well defined in order to ensure role clarity among the members of the committee
10. Service Rules, Promotion Policies, Employee Satisfaction, Welfare Schemes, and Grievance Redressal Mechanism are in force.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP (Enterprise Resource Planning) Document	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

Faculty Empowerment Strategies

Welfare Schemes for teaching and non-teaching staff

The institution is taking many welfare measures for all the teaching & non-teaching staff as they are the backbone of the institution. Welfare measures helps employee to work for longer duration. They also enhance the quality of their performance and feel comfortable and enthusiastic to work for the growth of the organization.

- Free bus facilities for non teaching faculty.
- Subsidized bus facility for all teaching faculty
- Maternity benefits for the staff members
- Subsidized canteen facilities for both teaching and non teaching staff
- Special increments and promotion on completion of Ph.D

- Reimbursement for Professional bodies registration.
- Expenses towards Industrial Visits.
- Gym facility in the campus
- Hostel facility
- Conduct of yoga session regularly for all faculty and students which helps to reduce the stress.
- A chance to upgrade their qualification to acquire the higher educational degrees
- Infrastructure, library, equipment, required software and other resources for the scholars

Professional Development of faculty

- The institution provides special leave and financial assistance to participate in seminars/workshops/conferences/FDPs etc.
- Study leave for higher education
- Encouragement to present and publish research papers
- Encouragement to publish text books/book chapters
- Appreciation for Best teachers

Professional Development of Technical/ Non-teaching staff:

- Institution organizes refresher courses, FDPs and workshops for teaching staff.
- Best teacher awards to encourage teaching staff.
- Institution conducts training programs to enhance skills among non-teaching staff.
- Training to library staff
- Fee concession to the children of economically backward staff

Amenities for teaching and non-teaching members

- Recreation programs, sports and picnics are arranged.
- Grievance Redressal Cell
- Subsidized canteen facility
- Yoga classes for physical & mental fitness
- Wi-fi facility
- Personal Workspace
- Computing facility
- Medical and health camps
- Awareness programs related to health
- Cameras to ensure safety and security
- Fire safety

File Description	Document
Upload any additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 52.77

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
59	67	64	53	20

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 4.8

6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
05	08	03	05	03

File Description	Document
Upload any additional information	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 51.36

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
56	55	73	51	21

File Description	Document
Upload any additional information	View Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

The institute has a standardized framework used for the process of Faculty Performance Appraisal which incorporates both accountability and professional development. The functional features of the Performance Appraisal process are as follows:

- The Performance Appraisal process for the staff is acquired manually.
- An annual self-appraisal report is submitted by every faculty member to the HoDs of the respective departments.

Different types of Evaluations are:

1. **Students' Evaluation of Staff:** The student rates their performance for 20 marks.

The feedback from the students is taken at the end of each semester. The students rate the teacher on various parameters like subject knowledge, content, presentation, communication skills, classroom

management, clarification of doubts, transparent evaluation, use of technology, counseling, prompt completion of the syllabus, Punctuality, interaction with students and mentoring.

2. Self-appraisal of Staff: The Faculty rate their own performance for 60 marks.

- Membership of professional societies.
- Improvement of departmental facilities.
- Participating conferences/workshops and Guest Lectures.
- Support in product development activities of the students.
- Accompanying students on industrial tours.
- Supporting and guiding student innovations.
- Involvement in training & placement activities.
- Effective mentoring.
- University result analysis.
- Conducting classes to convey the content which is not in the curriculum, but there is a necessity to understand the concept for students .

3. HOD's Evaluation of Staff: The HOD monitors the overall performance of every faculty member and rate them on ten point scale in the faculty appraisal form.

- Teaching load (theory, lab, mentoring, project guidance, department related works)
- Usage of innovative teaching methodologies (Peer learning, Chart method, etc.)
- Design of new Experiments in the lab related to course outcomes
- Regularly doing student counseling
- Calculating semester-wise pass percentage to analyze student performance
- Feedback is taken from students twice in a semester to see through the effectiveness of the faculty performance
- To assess the faculty by how they are guiding final year student projects
- Guidance in Career-orientation
- Conduction of remedial classes for irregular students
- Conduction of makeup classes for bright students
- Participation in curriculum development
- Learning and upgrading knowledge through online certification courses

4. Principal's Evaluation: The Principal observes the overall performance of every faculty member and rate them on ten point scale in the faculty appraisal form (FAF).

- Participation in Departmental and Institutional level administration
- Organization of events at Departmental and Institutional level
- Participation in Sports, NSS /Other service activities
- Coordinating Training & Placement activities in the departments.

Performance Appraisal for the non-teaching staff:

Heads of the departments will submit an annual confidential report on the performance of non-teaching staff considering the following parameters:

- Punctuality
- Discipline
- Performance
- Improvement of qualification
- Improvement of working skills
- Learning new tools and procedures
- Working extra time whenever work demands
- Maintaining the related files in a systematic manner

File Description	Document
Upload any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Response:

The college has a mechanism for internal and external financial audits. Monitoring financial management practices is a significant process in the internal audit. An internal audit is carried out by the Finance Committee. Budget and statement of expenses are reviewed every quarter by the Finance Committee. The accounts of college are audited each year by the External Qualified Chartered Accountant appointed by the Malineni Perumallu Educational Society. The Audited Report by the External CA is placed before the

governing body for wetting and rectification if any. The qualified remarks given by the auditors are taken into consideration in the forthcoming years.

File Description	Document
Upload any additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

RESOURCE MOBILIZATION:

The mobilization of funds is an important aspect to maintain quality education in the institution. The institution has developed a strategy for mobilizing the resources and ensuring the transparency in the financial management of the institute. It primarily depends on the quality enhancement and the reputation of the Institution. The following are the different ways of mobilizing the funds in the Institution.

- The major source of revenue generation is tuition fees collected from students. The appropriate fee is fixed, as per the guidelines issued by the fee fixation committee of the state government of Andhra Pradesh.
- Computer labs and test centers generate revenue by providing space and resources to various competitive exams.

RESOURCE UTILIZATION :

The institution follows a well-defined mechanism for monitoring the effective utilization of the financial resources for academic process and infrastructure development. The Institute has been planning towards efficient use of budgeted funds for each academic year. According to the guidelines specified by the Management and Principal, report of sanctioned budget and actual expenses are periodically year wise and monthly –wise is maintained. The resources are utilized for the following as per the approved budget.

- Employee (teaching, non-teaching staff and administrative staff) Salaries & benefits are a major component of expenditure.
- All the departments are requested to submit an estimate of requirements for their respective department, which is discussed under various heads of their department. The needs of the particular department are analyzed separately and the required budget is allocated.
- Adequate funds are utilized for development and maintenance of the infrastructure of the Institute towards upkeep of the fixed assets, repairs & maintenance of classrooms, laboratories and administrative areas etc.
- The management also supports the staff by providing registration fee for attending conferences, workshop, FDP and other technical events.
- The fund is utilized for student activities such as organizing symposiums, technical competitions, cultural activities, seminars, workshops.
- The winners of the technical symposium attended in other colleges are provided with TA/DA and registration fee.
- Purchase of Laboratory Equipment and Purchase of Consumables, etc.
- Purchase of machinery.
- Furniture & Fixtures.
- Infrastructure built-up.
- Skill Development and Innovation Training & Placement.
- Library Books , e-subscriptions, e-purchase of online journals, magazines, textbooks and reference books.
- Medical Emergency requirements.
- Software procurement, up-gradation and maintenance.
- Wi-Fi, Internet & Networking Bills.
- To conduct Induction-cum-Orientation Programs for the students, workshops, FDPs, training programs that ensure quality education.
- Conducting Faculty development programs, Workshops.
- Advertisements.
- Sanitation- housekeeping-gardening.
- Student Services - NSS, Sports.
- Power and fuel.
- Funds are also allocated towards security, fire fighting charges, etc. for regular upkeep of the campus.
- Printing and Stationery.
- Affiliation and Renewals.
- Repair, Replacements, and Maintenance.
- Taxes and licenses.
- Campus maintenance.
- Technical, co-curricular and Extra –curricular Events.
- Miscellaneous expenses.

File Description	Document
Upload any additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

The Internal Quality Assurance Cell was started in the year 2018 to monitor the quality of services being provided by the institution to its stakeholders. An IQAC committee is formed and approved by the governing body to take care of Quality assurance strategies and processes. The Institute's existing policies on academic and administrative systems are in respect of the process of teaching-learning and evaluation system, academic performance, faculty recruitment and training/qualification enhancement, are initiatives of IQAC. IQAC has contributed significantly to continually improve the infrastructure, enhance the faculty competencies, and empower the students to become employable.

Two examples of best practices institutionalized as a result of IQAC initiatives are

1. Student Mentoring System

The IQAC implemented an effective student mentoring system in the institution. The students are mentored by faculty members on aspects related to academics, profession, career and all round development from first year onwards. A complete track record of the student's activities like academic, curricular, co-Curricular, extra-curricular achievements, social activities and also the details of parent meeting are maintained by faculty members, appointed as counselors or mentors. Each mentor is allotted with 20 students. Mentoring activity starts with identifying bright and weak students by their previous achievements and records. The mentor will counsel the students at least twice in a semester. This system develops an interaction between students, mentor, and parents. After the implementation of mentoring system, considerable improvement is observed in attendance, academic results and students undergoing training for placement.

2. Pre Placement Training (PPT)

Pre Placement Training is also one of the notable initiatives of IQAC, to enhance and improve the employability skills of students. As part of PPT, all the students have been trained in various skills such as communication skills, Aptitude skills, Reasoning skills, Leadership skills, and technical skills.

This institution offers a long term Pre-Placement Training (PPT) to all the students right from second year onwards. One hours time is allotted for training along with regular academics. For final year students, special advanced Pre Placement Training (PPT) is provided even in semester vacations which help them to

gain confidence in the upcoming placements.

The objective of PPT Training:

To bridges the gap between corporate requirements and student's knowledge and skill sets. To guide and provide right module of training that meets the industry needs and improve their employability skills.

The outcome of PPT Trainings

- The ability to communicate effectively with co-workers, employers, clients and customers.
- The Training & Placement Cell strives hard to provide adequate training and finally place them in industry.
- The Cell ensures that all our students are placed in reputed companies – both software & core, with handsome packages.
- The Training & Placement Cell organizes sessions and workshops with industry experts that help the students get an insight into the demands and needs of the market.
- Our students got placed in Top Recruiters like Accenture, Wipro, TCS, Cognizant, L&T, IBM, Tech Mahindra etc.

File Description	Document
Upload any additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Response:

Response: 1

Institute has well planned teaching learning process and has robust methodology for rolling out the process. At the same time there is well-planned structure, as per the Guidelines of IQAC, to review the Teaching Learning Process. There are various teaching learning Processes like Subject Allocation, Preparation of Academic Administration Plan, Cluster mentor meetings, Student mentoring etc. Each of these activities is planned by the faculty and is reviewed thoroughly before rolling. Once the activities are rolled out, their progress is monitored as per the type of activity. The outcomes are analyzed and discussed with concerned faculty for further improvements.

Course Files: Quality Improvement Initiative.

Course files are to bring objectives and methods of the course for teaching and learning of each topic. The College undergoes the syllabus and make sure that all the students fulfill the pre-requisites of the course. The College starts schedule that they plan at the start of the year. A correct plan for every topic made by the College. The mapping of the course outcome is completed with the program outcome. Course files have proven be useful for the benefit of students with regarding clarity while teaching.

Response: 2**NPTEL ONLINE CERTIFICATION COURSE**

IQAC understands the importance of the opportunities to explore new areas of interest – which are not possible in regular college environment so that our Students were encouraged to join NPTEL Certification courses with the objective of enabling students obtain certificates for courses is to make them employable in the industry or pursue a suitable higher education program.

Through an online portal 4, 8 or 12-week online courses, typically on topics relevant to students in all years of higher education along with basic core courses in sciences and humanities with exposure to relevant tools and technologies, are being offered. The enrolment to and learning from these courses involves no cost. Following these online courses, an in-person, proctored certification exam will be conducted and a certificate is provided through the participating institutions and industry, when applicable.

- Enables the student to directly engage and learn from the best faculty in the country in that particular subject. This strengthens the fundamentals of the student in the course
- Also gives students the opportunity to teach in greater depth the subjects they wish to master. These courses are also serving as faculty development programmes 15-20% of enrolments are made by our faculty.
- These courses also bring out the self-learning initiative of the students – where their own motivation is what drives them to complete the course and not external compulsions. This fosters the habit of keeping oneself updated always by means of self-study.
- The certificates issued bear the stamp of CCE, IIT and hence are valuable additions when the student is applying for jobs.
- Companies can also dig into this pool of candidates with specialized skills – in case they wish to recruit.

File Description	Document
Upload any additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)**
- 3.Participation in NIRF**
- 4.any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

Response: A. All of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

- This institution is laid out only for woman-students and subsequently no inquiry of orientation review emerges enough; however we have started orientation uniformity.
- The Women Empowerment Committee observes *International Women's Day* consistently for motivation, commitment of the students in specialized disciplines and additionally facilitated programs on *Mindfulness meeting on Women Health* on calling on specialists to give chats on medical problems like; bosom malignant growth and feminine cleanliness. Besides, our institute facilitate them to celebrate traditional festivals like *Rangooli for Sankranthi Sambaralu* yearly.
- Our students along with NSS volunteers conducted some awareness programmes for school children on women safety, security and conveyed the importance of their education in the society.
- Our Curriculum has courses on *Gender Sensitization, Human values and Ethics* that enable students to have a look at basic human aspiration and proper understanding; to maintain harmony in the family and society at various levels of existence.

Facilities for Women

1) Safety and Security

- CCTV cameras are installed for safety and security in the campus.
- Fire extinguishers are available.
- First aid facility is provided round the clock.
- A Grievance committee is constituted to sustain women rights; complaining against sexual harassment, abuse at work places. Students have always a direct accessibility with the police department to complain an these issues.
- As per the directions of Hon'ble Supreme Court of India, the *Anti-Ragging Committee* has been constituted to receive the complaints from the girl students and to ensure that no Ragging take place in the premises of the college.
- Security Guards at the main gate allow the persons only after verification of ID proof and asking reasons in the case of visitors.
- Institute holds an exclusive health care center with a doctor and an emergency transport service.
- *The Disha* complaint box, which is an initiative of the A.P government, is set up by the police department to take complaints directly from the students for their safety.

2) Counseling

- The HOD will distribute approximately 20 students to each mentor at first year level.
- Regular meetings usually happen once in a fortnight between the mentor and the mentee
- Counselling and mentoring dairy for each student is maintained for recording academic, personal and other necessary information.
- Based on the information collected during mentoring, faculty will analyze students' performance and their involvement in academics, including their attendance, theory courses, lab courses, communication skills, and in other activities like sports, NSS etc.
- Students are allowed to approach the mentor for both academic and personal guidance.

3) Common Rooms

Common rooms are available in the institution, which are equipped with tables, chairs, beds with linen, drinking water coolers and washrooms, exclusively for girl students and women employees. Health care center and sick room are available with bedding facility.

4) Day care center for young children

Day care center for young children is available in the campus.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Link for annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

Response: A. 4 or All of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

The main activities of this institution are to keep its environment green and pollution free for which the management is putting its best effort in collecting wastage, transportation and other things. In this aspect, we follow the guide lines of our affiliated university (JNTUK). Relevant to this subject, the university has framed some subjects like *Environmental Science* as a mandatory one. Through this subject, certain environmental issues and its solution strategies are being given awareness to our students in order to conduct certain programmes in this area. Waste management includes the process of its collection, its transportation, disposal of garbage, sewage and other waste products. Swatch Bharat Campaigns are organized every year by the students as they are very important to maintain our campus to be eco-friendly one. In this point of view, we follow our Hon'ble Prime Minister Sri. Narendra Modi who initiated *Swatch Bharat Abhiyan* (SBA) to maintain cleanliness everywhere. We also encourage the students to give seminars on the importance of the Swatch Bharat Mission. In response to this Swatch Bharat campaign, the NSS unit conducts frequent activities like cleaning of roads, awareness of proper waste management etc.

Solid waste management:

Our institution practices the solid waste on the campus in a systematic way. The waste bins are provided in the college at all department staff rooms, labs, library, at the entrance of every floor and in the canteen to collect the dry waste and wet waste. The garbage and plastic waste, collected by our housekeeping personnel are handled over to Municipal vehicle. The solid waste management is implemented under the initiative of swachhta projects for environmental protection. We have an MOU with Suraj Krishna Greeneries, an Authorized Agency of ITC, Kadapa, Andhra Pradesh for solid waste management and environment protection.

Liquid waste management: The institute practices separation of waste water into fresh water from washrooms and water from laboratories. Effective reuse of wastewater from RO plant is being used for irrigating the green areas. Recycled water is used for flushing of toilets and watering the gardens.

E-Waste Management: The E-waste generated, in the institution is given to the authorized dealers who purchase the scrap and reuse of the useful components. The old computers are used by the faculty for demonstration purposes in the practical sessions. The Institute has an MoU to dispose e-waste properly and to protect the environment and recycle it to make useful products. The main aim is to collect E-Waste and segregate the useful circuits and components and make use of it.

File Description	Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Link for Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: A. Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit

2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Certificates of the awards received	View Document
Link for any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Divyangjan friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment
5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Response: A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Geotagged photographs / videos of the facilities	View Document
Details of the Software procured for providing the assistance	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

The Anti-ragging committee plays a key role in maintaining tolerance and harmony among students.

A single incidence of ragging has not been reported since inception which shows the efficient working of the cell.

The Grievances Redressal committee is also constituted to address the grievances among staff and students to maintain harmony in the college. No serious grievances have been reported till date.

Tolerance and Harmony towards

Cultural Diversities:

Every academic year, the college hosts a national level student meet with technical, athletic, and cultural events. It is a two-day student gathering. Spot events are also held in various branches of this program to encourage students. Cash prizes are awarded to the winners of various competitions held during the event.

Cultural diversity supports the idea that every person can make a unique and positive contribution to the larger society .

The college organises annual cultural meet every year in the beginning of new-year to promote cultural harmony among students and staffs. Students were performing various traditional/classical arts form of different states of the country.

Regional Diversities:

Equal opportunities are provided to the students to participate in various activities conducted irrespective of their caste, creed, religion and region. The college promotes regionalism by celebrating festivals like Vinayaka Chavithi, Sankranthi Sambaralu, Christmas Day Celebrations etc. This helps in maintaining peace, harmony, and prosperity in a country.

Christmas is observed as a religious and cultural celebration in the College like the millions of people in the world. The college celebrates this season as an opportunity to inculcate values like loving everyone, caring the needy, and sharing with family and society. Different departments of the college and the College Union organise different programmes for staffs and students like singing competition **and Dance performances**

To ensure religious harmony among students, the college **organizes Holy Books Reading** every year by students. The Bible, Quran, and Bhagavat Geetha, the three Holy books from Christians, Muslims, and Hindus are read by students from second and third years.

Linguistic Diversities:

Students are encouraged to enhance linguistic skills by participating in various workshops, guest lectures by experts etc. The students are encouraged to deliver their views and ideas on various agenda points for enhancing their speaking skills. The Training and Placement cell of our institution organizes Mock interviews, JAM sessions, Group Discussion to improve the communication skills of the students.

Socioeconomic

The institute provides merit scholarships as financial support for their studies.

The Central library has a facility to issue books for SC/ST students from SC/ST book bank supplied by the social welfare department.

Social economics certainly exerts a profound impact on the lives of individuals, and their socioeconomic status may strongly influence their future achievements, level of education, and degree of financial security.

Commemorative days like Women's day, Teachers' day, Yoga day and national festivals are also celebrated in the college. Conduction of such events helps in promoting regional, linguistic, communal socioeconomic and other diversities.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

As a good and responsible citizen of the country, everyone should aware of **the fundamental duties and rights**. All these constitutional obligations proposed by the Indian Government may boot each citizen in achieving their duties towards the country. Therefore, it is the duty of the institution has taken various initiatives to sensitize the staff and students towards **constitutional obligations**. The College itself insists that the College must provide an environment that enables the students to play a vital role in the **nation-building process** and contribute to the progress of **humanity**.

Response:

Values:

In order to Sensitize the students and employees of the college on human rights, duties and responsibilities of the citizen of the nation, the college conduct various programs on the occasion of Republic Day & Independence Day with respect to the nation.

The Independence Day & Republic day of the country mark its **freedom** from the British that chained the country for long. The celebration of this day makes each **citizen** harmonize with the diversities of the religious, cultural and traditional aspects of our country and engender respect for the **National Flag and National Anthem as fundamental duty**. The staff and students participate on this special occasion to promote a spirit of **patriotism** and uphold the **unity** of the nation which includes:

*Flag Hosting

*National Anthem

*Showing Patriotic Movies

*Skits

*Organize Independence Day Quiz.

Institution has the privilege to organize **Teachers day** by conducting sports especially for the teachers .

Rights, duties and responsibilities:

As a good and responsible citizen, one must be aware of the fundamental rights and duties.

The institute Organizes program on **human rights** with the eminent human rights activists

*With the respect for the values the college invited **Swami Sudhbhodhanadha of Ramakrishna mission**

Of Hyderabad to deliver a talk on **Bhagavat Geetha** for excellences.

***Subhash patriji pyramid society founder** visited our campus to deliver a speech on **Concentration of studies through meditation.**

***National Blood Donation Day** was observed on 01 October at MALINENI College to raise awareness about the need for blood donation for **saving lives**.The Seminar was conducted to inspire students who have not donated blood yet, **“Sharing is Caring.” Being a responsible citizen, it is our duty to save other’s lives.** Staff and students pledged to donate blood and to encourage others to make a difference, Organized by NSS Unit in Guntur branch.

Azadi Ka Amrit Mahotsav program Organized by NSS Unit in kornapadu high school, various resource persons explained the developments that took place during last 75 years and memorized the heroic deeds of our national leaders and various governments in the country.

Environment Day was celebrated on 05 June 2015 in our college. It is the **fundamental duty of a responsible citizen of India, to save Mother Earth** by stopping the use of plastic, save fuel and to start recycling. Students pledged to take the initiative for a cleaner and greener Environment. **Saplings** were planted in and around the campus to preserve the environment.

Campaign against Child Labor A poster exhibition with the theme “No to Child Labor“was held by NSS of our College was held on 17th November 2015. Our country has always stood for constitutional, statutory and developmental measures that are needed for the elimination of child labor. This day was observed to **protect the child rights.**

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

Response: A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	View Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

Institution organizes national and international commemorative days, events and festivals.

Teachers Day:

Teacher's Day in India is celebrated on the **fifth of September**, the birthday of **Dr. Sarvepalli Radhakrishnan**. Who served as a **President, Academician, Philosopher and a good leader**. This is One of the most memorable day to respect our teachers for their Significant work.

On the eve ,our students organize some games and activities for all the faculty and they honor all the faculty and We felicitate a "**Renowned Senior faculty**" in our college and make the students learn from his experience.

Engineers Days:

Engineers' Day is celebrated every year on **15th September** as a tribute to **Bharat Ratna Sir**

Mokshagundam Visvesvaraya on his birth anniversary. Dr. M. Visvesvaraya, was one of the greatest Engineer, Administrator, an Eminent Statesman, 19th Diwan of Mysore , Educationalist & a Social Worker.

We will invite eminent engineer's from different fields and we make all over students enlightened by their lectures, speeches and experiences of life as a good practitioner to energize the zeal for this budding engineers , we felicitate them as an honor for their contribution towards society.

Women's Day :

All around the world, International Women's Day represents an opportunity to celebrate the achievements of women while calling for greater quality.

International Women's Day (IWD) is celebrated on 8th March. Every year Women's day is observed around the world to honor the social, economic and cultural achievements of women .The students organize women's day celebrations to honor and respect the **women staff** in the college. Institution organized a special awareness program on health and hygiene, by inviting **Dr. Shama Sultana Obstetrician & Gynecologist** was the chief guest of this program. The primary goal of the program was how to prevent tissues of cervical cancer, illness, menstrual problems and overcoming the anemia and menstrual hygiene.

On this day we also invited **Mrs. Rama Devi, Art of Living** as a Chief Guest for IWD Celebrations. She gave valuable note to uphold women's achievement to recognize challenges and focus greater attention on women's rights and gender equality to mobilize all people to do their part.

It's a time to reflect on progress made, to call for change and to celebrate acts of courage and determination by ordinary women and also conduct various events such as Cultural, Sports & technical events etc.

Independence Day & Republic Day :

Independence Day and Republic Day are celebrated by conducting following programs.

*Flag Hosting

*VandeMataram Fest

*Show a Patriotic Movie

*Independence Day & Republic Day Quizzes

Yoga Day :

International Yoga Day is celebrated annually on June 20. The Theme is **Yoga For Wellness** and for the practicing yoga for physical and mental well being .The world '**Yoga**' has been derived from **Sanskrit roots** which means "**to unite**" or "**to yoke**", indicating a perfect harmony between the mind and body, Man & Nature.

File Description	Document
Link for Geotagged photographs of some of the events	View Document
Link for Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

Practice-I

Title: Malineni's Women Empowerment & Skill Development through Education

Objectives:

- To develop the technical, analytical & soft skills for women engineers to cater the industrial and societal needs.
- To create peer awareness among the women about their civic rights and obligations.
- To develop a spirit of gender sensitization
- To empower women with emotional and physical strength.
- To peer the women to have a sense of culture, ethics, morality and social responsibilities.
- To develop self help and self confidence in women.
- To develop the technical, analytical & soft skills for women engineers to cater the industrial and societal needs.
- The Specific Objective of the technical, analytical and soft skills training is to help unleash the latent talents of our young learners in a friendly, fun-filled and enabling learning environment in order to make their education meet corporate expectation and placing them in reputed companies.
- To transform students into preferable resources for industry and society with appropriate trainings in the fields of Aptitude, Logical thinking, Verbal Ability, Written Communication and Technical Skills.
- To develop interpersonal skills and leadership qualities among students with appropriate Seminars, group discussion activities and modern tools.

- To gain a competitive advantage by developing technical skill sets those are in demand.
- To help in career visioning through guidance and counseling by organizing senior corporate guests, international education councilors, etc.
- To develop the best learning process using a comprehensive understanding of industry's best practices.
- To empower fundamental technical skills with emerging areas like artificial intelligence, data science, robotics, machine learning, IoT, Block Chain, Big data analytics etc.

Context:

“Empowerment of women leads to development of a good family, good society and, ultimately, a good nation; believing in these words of Dr.A.P.J.Abdul Kalam, the college focuses on the activities related to women empowerment through education. Through it, women have better access and opportunities in the workforce as they will be able to live their dreams by pursuing their own goals and values. All these activities have made the students believe that women are the nurturers, custodians and bearers of social tradition.

In this context, MLWEC focuses primarily on the below framework:

The industry is always on the lookout for students who are vibrant, energetic individuals and ready to accept challenges, attentive, a good academic background, fast learners, open to learning even at work and more importantly, good communication skills. A good score sheet and technical ground rules are only one phase of the recruitment process.

Organizations today make use of unique techniques during recruitment to make certain that those hired will meet its requirements. The pre placement cell recognizes these techniques by interacting with the industry and prepares students for them. Hence there is a need to establish the vital link between students and prospective employers to facilitate the training and placement of students as they begin their career after graduation.

Personality Development is one of the most important aspects is to groom the students so that they can deal with the challenging situations at work place. Since Pre Placement training time can be quite daunting, these sessions also help in motivating the students by conducting various workshops on how to increase their self-esteem.

One of the most crucial steps to get hired by a dream company is to excel in the final rounds of personal interviews. The Pre-Placement Training train the students on important interview skills related to Dress Code, Confidence, Creativity, Ability to react and respond, and handle to stress.

Hence, pre placement activities focus on the personality development to make the students reliable, with a positive attitude and right decision making.

The Practice:

The uniqueness of our pre placement training program conducted by the Training and Placement department is to ensure that the recruitment process is a successful journey for the students of MLWEC. It puts high emphasis on technical and non-technical pre placement training, which will train students to excel at interviews and recruitment processes.

1. An exclusive MoU with “BYTEXL” for campus recruitment training from IInd year- IVth year.
2. Highly experienced and capable team of trainers to impart knowledge on Quantitative Aptitude, Logical Reasoning, Verbal Ability and Soft Skills.
3. Students are trained on Technical Coding as part of Regular Curriculum in CRT classes.
4. Regular assessments on trained topics and Company specific patterns through our own Bytexl testing Platform are given paramount importance.
5. Assessments pave the way for finding gaps in specific areas so as to bridge them effectively.
6. The training is executed in the most suitable environment with the help of the Career Guidance Cell, well-equipped CRT Rooms, Sophisticated Auditorium and state-of-the-art Communication and Soft-Skills Laboratories.
7. The Alumni of the Institution assists the students to understand the real-time procedures and practices of the Companies through Seminars, Mock-interviews and related Interactions. The following training programmes are conducted for the students by proper planning prior to the academic start.

(I & II year)

Soft Skill Training:

This includes the enhancement of following skills

- Presentation Skills
- Group Discussion
- Resume Preparation
- Interview Preparation
- Just a Minute
- Leadership Qualities
- Goal Setting
- Time Management

- Assertiveness
- Team Player, etc.

Aptitude Skill Trainings:

- Reasoning
- Data Interpretation
- Logical
- Analytical

Domain-Specific Trainings:

The students are trained in advanced techniques of the following languages and technologies and make them application oriented.

- C/C++
- Java
- Python

Career Guidance:

Career Planning for various career options assisted the students with career choice, job research, job planning, understanding self-talent, and job interview tips.

Evidence of Success:

Students optimally used programs of soft skills, CRT and corporate trainings to sculpt their technical skills, personality traits and managerial skills, thus whetting their communicative as well as competitive spirit and enthusiasm promoting positive feedback and momentum, promising further such endeavors.

Many employers have given excellent testimony for our placement support for making the students industry ready.

Alumni and parents have also given good testimonials for supporting the students throughout their journey to good placements and training them for being a responsible citizen.

Year by year we observed a considerable increase in the placement and also the recruitments in reputed companies with a very good package.

Problems encountered and Resources Required:

Pre placement training is a high priority practice in MLWEC, still it faces certain problems which the management strives to solve them.

Students are hesitating to take part in activities because of lack of confidence and dare. They also feel the burden of academics to participate in activities.

Some of the students also lack commitment and out tracked, hence a close monitoring and mentoring by faculty is required. For this a strong mentoring and counseling system is employed by training the faculty on counseling and handling the students.

Student from rural background may have good technical skills but may lack communication and other required skills, so special classes are to be provided to such students to boost their confidence levels and face the challenges of the world.

Faculty Development programmes need to be conducted to update the faculty with new evolving technologies so that they are prepared to train the students.

Practice-II

Title: Malineni's Women Industry Institute Interactions with a key novel focus on experiential learning, company specific training, campus connect and finishing school concept (class room to corporate world) as a policy and practice.

Objectives:

- To establish convergence with industrial and research organizations from various fields through MOUs as a form of interaction.
- To Establish Centre of Excellence by Industry/ Corporate to Provide Real Time exposure on Technologies
- Industrial Visits
- To integrate industrial training and other inputs from the industry with the teaching learning processes so as to develop in the students:
 - Awareness about the job functions in the industry& attitudes to adapt to industrial environment.
 - Proper practical and relevant knowledge and skills to become self-employed.

Context:

Industry-Institute-Interaction provides a platform for both the students as well as faculty members to be aware of industry expectations of skill sets required for students. This enables students to be aware of the lacunae in their skills and provides an opportunity to upgrade them.

Training & Placement Department is instrumental in signing the MOUs with some of the reputed companies like TCS, CTS, DXC, Wipro, Supraja Technologies, etc. Through this, the department organizes various technical training and certification programs for students to give competitive edge in

present global employment market.

MALINENI's tireless journey to inspire young minds and inculcate latest technologies in their education has entered an MOU with Indo-European Skills Centre for Mechatronics and Robotics, in association with German University in collaboration with APSSDC, Govt of A.P. two of our faculty members undergone training in Germany on robotics. One of our ARC Co-ordinator Dr.Ch.Ramesh has been honored: ARC BEST TEACHER AWARD-2020 by APSSDC in association with Indo- Euro Synchronization..

We are proud to be a part of a social initiative by DXC Technology for Empowerment of Women. We are associated with T-Hub, Hyderabad which leads India's pioneering innovation ecosystem that powers next-generation products and new business models. This initiative taken by the college helps promoting Early level Innovation- An interactive platform to forge students connection, identity and opportunity.

Our Prestigious Corporate Partners:

1. TCS – Youth Employment Programme

We are proud to be associated with TCS-YEP. The main objective is to enhance employability of rural youth from socially and economically marginalized communities, thereby promoting inclusive growth. It also ensures continuous availability of talent pool for the industry and increase diversity & gender parity.

The YEP provides free employability training to empower **200 of our pre-final year students** by skilling them in various technologies making them industry ready. The program also guides for internal and external placement across India.

The Youth Employment Program uses a Four Pillar Framework to achieve the objective.

- **Training Content:** Prepared by TCS experts, with focus on industry needs and approximately 200 hours for Engineering graduates.
- **Trainers:** The training is provided by TCS employees as volunteers, bringing in their expertise and industry skills into the fore. Some external experts too contribute to it.
- **Placement:** Through teach-coach-and mentor model, the trainees are guided for jobs within TCS and externally.

2. Cognizant – Digital Nurture

It's a new program started by Cognizant which helps the student to improve their knowledge and skills, covers all the modules and fundamentals which an IT student must have also, after completion. This program is a first-of-its-kind in the industry that makes you a professional in the digital world, even before a student leaves the campus. The objective of this initiative is to nurture all eligible students and make them industry-ready for a successful career with Cognizant. If we identify you to be a part of this program, you will go through a dedicated technical and behavioral curriculum that blends continuous evaluation through multi-touch point intervention with assessments. The participants who excel the benchmark set for this course will be awarded Pre-Placement offer (PPO) from Cognizant.

This focused learning program has been designed for students of all engineering branches. which provides:

- Internships with business experts
- Performance – based joining bonus
- Higher Education Co-sponsorship
- An opportunity to grab a pre-placement offer from Cognizant

Digital Nurture 2.0 - Deep Skilling Stage at a glance : It is the program currently in progress at our campus. Students will be enrolled into any one stream from the below 2 options based on the results of the Qualifier Test. This learning journey consists of modules covering:

Digital Nurture 2.0 - Deep Skilling Stage – .NET (Stream 1)

Digital Nurture 2.0 - Deep Skilling Stage – Java (Stream 2)

It is completely online: Delivered 24x7 through a best-in-class digital skilling platform. The program is structured as a set of course modules. Each Module is a learning unit that consists of Udemy learning content, hands-on Lab exercises (where applicable), and knowledge-check quizzes.

3. Applied Robot Control Lab

Faculty Training:

- Training of faculty members held both online and onsite (ARC 1.0) at the labs of APS ECM, Aachen, Germany.
- Online Training involved webinar sessions and training workshop in Germany helped them to understand the robots while delivering the course to the students.

Training Methodology:

- Applied Robot control courses for the students ARC 1.0, ARC 2.0 and ARC 3.0 was designed to introduce them to the fields of automation and industrial robotics with a practical approach.
- The courses were delivered by pioneers in the industry, faculties from prestigious German universities (through webinars) with the help of the faculty members from the convergence Centers.
- 40 Students have actively participated and successfully completed ARC1.0, ARC 2.0 and ARC 3.0 training sessions at our campus (2019-20).
- About 60 students have registered for Second batch ARC 1.0 (2020-21)

HACKATHONS

Hackathon challenge attendees to exhibit their ability to innovate and create compelling, real- world solutions, utilizing the latest devices and technology. It's also a chance to demonstrate specific skills that you aren't able to showcase elsewhere and we have encouraged our students to bring out their creative best.

INTERNSHIPS, MICROSOFT CERTIFICATIONS, WORKSHOPS

Internship programs provide training, mentoring, hands on experience and career development opportunities while working with industries. To enhance the exposure of the students, faculty and staff with respect to education, professional skills and knowledge, numerous extension lectures, training programmes, seminars and workshops are regularly arranged in the campus.

MLWEC organizes bootcamps and Hackathons at department level to encourage professional creativity and self-expression by using the most innovative and modern technological solutions through start-up companies like Supraja Technologies , Madblock Technologies Pvt Ltd,etc.

Evidence of Success:

Students have utilized the industrial trainings and internships to the core and have shown a tremendous improvement in the placements of MLWEC

Problems Encountered:

During COVID pandemic,

- a. Many scheduled activities like industrial visits, guest lectures, STTPs etc. were cancelled.
- b. Manufacturing /Fabrication of students projects were suspended due to lockdown hence funds allocated for projects were not utilized.

File Description	Document
Link for Best practices in the Institutional web site	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Financial Support

To provide financial assistance to deserving students from low-income families to cover a portion of their educational expenses such as Tuition, Transportation, Hostel, and Mess charges. Scholarships/Free ships/Concessions shall include

- i) Concession in tuition fees for poor and needy students
- ii) Concession in tuition fees for the wards of full-time teachers and permanent staff of the institute
- iii) Concession in Hostel and Mess charges
- iv) Financial Assistance for Covid-19 medical aid to staff and students

Local Governance and administration

The college management is always available in the college premises to solve the problems and take decisions immediately in the view of employees as well as student issues.

ARC Lab

APS European Centre for Mechatronics (ECM) based in Aachen, Germany was founded in 1981. They have been working in the fields of robotics, sensor technology, and information and communication technology for more than 30 years. Engineers and technicians from various disciplines develop and implement interdisciplinary concepts and solutions in cooperation with national and international industrial partners, public procurers and researchers.

- 40 Students have actively participated and successfully completed ARC1.0, ARC 2.0 and ARC 3.0 training sessions at our campus (2019-20).
- About 60 students have registered for Second batch ARC 1.0 (2020-21)
- In Advance international certification program about 100 students received internship certificates

Faculty Pedagogy & Training:

- Training of faculty members held both online and onsite (ARC 1.0) at the labs of APS ECM, Aachen, Germany.
- Online Training involved webinar sessions and training workshops in Germany helped the faculty to understand the robots while delivering the course to the students.

Training Methodology:

- Applied Robot control courses for the student's ARC 1.0, ARC 2.0, and ARC 3.0 were designed to introduce them to the fields of automation and industrial robotics with a practical approach.
- The courses were delivered by pioneers in the industry and faculties from prestigious German universities (through webinars) with the help of the faculty members from the convergence Centers.
- 40 Students have actively participated in and completed ARC1.0, ARC 2.0, and ARC 3.0 training sessions at our campus in the academic year 2019-20.
- About 60 students have registered for Second batch ARC 1.0 for the academic year 2020-21

Modern ICT Teaching Learning Methods

- **Pogil** – This is a structured approach of learning method that requires students to work in self-managed teams to explore content in a manner that requires them to solve problems, conduct analysis, and cooperate to draw valid conclusions.
- **Wit & Will** – To bring desired changes in students' attitude, to shape behavior and conduct and for

knowledge acquisition of our students, we follow this method. It improves the learning skills, self belief and social attitude of our students.

- **Spaced Learning** - method is one of the recent teaching-learning methods where the teacher repeats the lesson multiple times until the students receives it entirely. Here, the mentor follows certain breaks in between class sessions. This gap is meant to refresh the mind of the students with certain physical activities or mind-games which energizes them to the next session as a proverb cited- "A healthy mind is always in a healthy body". If the physical status of the student is good, they can perform well with their mind because learning must be a stress-free process seldom.
- **Flipped Classroom** - watching video tutorials, web searching for the work assigned by the teacher in the classroom etc... Much of the content is shared by the teacher with this method so that time can be consumed well to utilize in a proper way to understand the content.
- **Peer Collaborative Learning** - the support of the teacher who links the topics of one subject to other to make them integrative which leads the learner achieving multiple subject knowledge. This method is one that encourages learners to present their ideas. Here, the mentor solves the mentees' academic subject problems through debates and discussions. This kind of learning method improves learners' communication skills; Listening, working with teams, presentation, creativity and constructive criticism.
- **Think-pair- share Method** - T : (Think) Teachers begin by asking a specific question about the text. Students "think" about what they know or have learned about the topic. P : (Pair) Each student should be paired with another student or a small group. P : (Pair) Each student should be paired with another student or a small group.
- **Blended Learning** - has been implemented in higher education and corporate learning recently as the technological methods to cope up to develop different learning models among which 'blended learning' is one which is known as 'hybrid learning'. This is a method of teaching that integrates technology and digital media with traditional instructor-led classroom activities for felicitating the students more flexibility to customize their learning process.
- **Self-Learning** - Instructor-delivered content, e-learning, webinars, conference calls, live or online sessions with instructors and other media and events like; Face book, e-mail, chat rooms, blogs, podcasting, Twitter, YouTube, Skype and web to obtain deep understanding of the content. This method is playing a vital role during Covid-19 pandemic.

Eco-Friendly Campus Formation and Preservation

The college maintains pollution-free environment premises. Today there is a great need for conservation. The leading cause behind these problems is that humans consume natural resources much quicker than they can be replenished. We must educate and make students aware of issues such as renewable energy sources, waste management, and recycling. We decided to work in the areas of power, plant, water, and cleanliness.

Plastic-free campus

The institution discourages the usage of plastic bags and cups within the premises. There was a strict rule from the institute to use only steel plates, leaf plates, steel cups, or paper cups. Even the faculty in the college prefers to use steel water bottles instead of plastic water bottles. Some programs are also arranged within the campus to get awareness about the pros and cons of plastic usage and steps to implement the decrease in plastic use.

File Description	Document
Link for appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

- Malineni Lakshmaiah Women's Engineering College strives towards the empowerment of women by imparting quality technical education and training for professional growth through a team of dedicated faculty and by OBE practice.
- As the campus students centric, we make the students feel like " home away from home" and the main strength of campus is ragging free.
- Excellent infrastructure with state of art laboratories.
- To retrieve the hidden talents of the students, we have various clubs like chairmen's club, Spark club and music club etc
- Good encouragement for Extra and Co-curricular activities, Value Added Courses beyond curriculum
- Celestial Placement Record through placement opportunities generated by Training and Placement Cell and other platforms like Internships, APSSDC, AMCAT and Co-Cubes, etc

Concluding Remarks :

Malineni Lakshmaiah Women's Engineering College is one of the best women's engineering institutions in Andhra Pradesh, imparting quality technical education for women effectively. The Institution is located on Guntur-Parchuru state high-way which is 5kms away from Guntur city.

The institution is continuously striving for quality initiatives and appraisals of key aspects namely curricular aspects, teaching-learning evaluation, research mobilization , consultancy, infrastructure, central facilities, learning resources, student support, student progression, governance and leadership and best practices of state of art its kind. The institute facilitates social initiatives, awareness in women rights and also volunteering in contribution to green and hygienic environment for Villages, schools, hospitals through NSS activities.