

THE ANNUAL QUALITY ASSURANCE REPORT

(AQAR)

for the A.Y. 2017-18



The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

Part – A

1. Details of the Institution

1.1 Name of the Institution	MLR Institute of Technology
1.2 Address Line 1	Laxman Reddy Avenue, Dundigal
Address Line 2	Gandimysamma-Dundigal (M), Medchal (Dist)
City/Town	Hyderabad
State	TELANGANA
Pin Code	500043
Institution e-mail address	director@mlrinstitutions.ac.in
Contact Nos.	08418-204066/08418-204088
Name of the Head of the Institution:	Dr.P.Bhaskara Reddy
	08418-204145

Tel. No. with STD Code:

Mobile:

9949810842

Name of the IQAC Coordinator:

Prof.K.L.Chugh

Mobile:

9866666601

IQAC e-mail address:

kl_chugh@hotmail.com

1.3 NAAC Track ID (For ex. MHCOGN 18879)

TSCOGN26186

1.4 NAAC Executive Committee No. & Date:

EC(SC)/16/A&A/11.1 Date: July 11, 2016

*(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)*

1.5 Website address:

www.mlrinstitutions.ac.in

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

<http://www.mlrinstitutions.ac.in/sites/default/files/AQAR-2016-17.pdf>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.12	2015	20-08-2015 to 19-08-2021
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC:

30/08/2016

1.8 AQAR for the year (for example 2010-11)

2017-18

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

i. AQAR 2016-17 submitted to NAAC on 30/08/2017

ii. AQAR _____ (DD/MM/YYYY)

iii. AQAR _____ (DD/MM/YYYY)

iv. AQAR _____ (DD/MM/YYYY)

1.10 Institutional Status
University

State Central Deemed Private

Affiliated College

Yes No

Constituent College

Yes No

Autonomous college of UGC

Yes No

Regulatory Agency approved Institution
(Approved by AICTE-New Delhi)

Yes No

Type of Institution

Co-education Men Women

Urban Rural Tribal

Financial Status

Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing

Totally Self-financing

1.11 Type of Faculty/Programme

Arts	<input type="checkbox"/>	Science	<input type="checkbox"/>	Commerce	<input type="checkbox"/>	Law	<input type="checkbox"/>	(Phys Edu)	<input type="checkbox"/>
TEI (Edu)	<input type="checkbox"/>	Engineering	<input checked="" type="checkbox"/>	Health Science	<input type="checkbox"/>	Management	<input type="checkbox"/>		<input type="checkbox"/>
Others (Specify)	<input type="text"/>								

1.12 Name of the Affiliating University (for the Colleges)

Jawaharlal Nehru Technological University, Hyderabad

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc
Autonomy by State/Central Govt. / University

UGC

University with Potential for Excellence	<input type="checkbox"/>	UGC-CPE	<input type="checkbox"/>
DST Star Scheme	<input checked="" type="checkbox"/>	UGC-CE	<input type="checkbox"/>
UGC-Special Assistance Programme	<input type="checkbox"/>	DST-FIST	<input checked="" type="checkbox"/>
UGC-Innovative PG programmes	<input type="checkbox"/>	any other (UGC Autonomous)	<input checked="" type="checkbox"/>
UGC-COP Programmes	<input type="checkbox"/>		

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and Community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: No. Faculty

Non-Teaching Staff Students Alumni Others

AQAR for the A.Y 2017-18

2.12 Has IQAC received any funding from UGC during the year? YES No

If yes, mention the amount

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2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.	<table border="1"><tr><td>3</td></tr></table>	3	International	<table border="1"><tr><td>1</td></tr></table>	1	National	<table border="1"><tr><td></td></tr></table>		State	<table border="1"><tr><td>2</td></tr></table>	2
3											
1											
2											

(ii) Themes

- 1 Introduced micro-projects from first year onwards with an aim to shift learning from Teacher-Centric to Student-Centric.
- 2 Faculty preparedness presentations (FPPs) to improve the quality of lectures in class room
- 3 Change the assessment methods of laboratory activities towards OBE
- 4 Increased number of Active Learning strategies
- 5 To encourage the faculty to carryout consultancy works.
- 6 To provide flexible learning by introducing MOOCs courses as per the direction of AICTE, New Delhi under SWAYAM Scheme.

2.14 Significant Activities and contributions made by IQAC

IQAC has taken a number of initiatives for quality enhancement in the Teaching-learning process by conducting theme based workshops / symposia as given in 2.13 (ii) above. Further, a number of innovative and best practices have been included in the curriculum to make the teaching learning more interesting and effective.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements/Outcomes
Introducing new teaching methodologies.	1. Each faculty conducting one TLS per unit. 2. Faculty playing at least one mute video in class. The feedback from all students indicated good initiation.

	3. Changes in evaluation process of lab activities had been implemented.
Faculty Preparedness and Trainings	<ol style="list-style-type: none"> 1. Faculty preparedness presentation Implemented for all departments. 2. FDP on teaching methodologies in every semester break: Conducted for all the newly appointed faculty members during semester break — 8th and 9th Dec.2017. Total 30 faculty members from all the departments Participated 3. Teaching Evaluation and Development activity for faculty handling Programming language: Total 11 faculty members have attended the program conducted from Dec 14th — Dec 29th 2017. 4. IIEECP — Batch-II (UCEE International Engineering Educators' Certification Program): A total of 15 faculty members completed up to Phase-II out of 26 nominated. 5. IIEECP — Batch-II, Phase-I: A total of 30 faculty members completed phase-I. 6. MOOCS: An altogether 53 certifications have been obtained. <ol style="list-style-type: none"> i. NPTEL: 39 ii. IUCEE: 14
Strengthening Sports activities	<ol style="list-style-type: none"> 1. Constructed indoor stadium with international standards. 2. Sports scholarship for 30 students.
Preparation of AQAR	AQAR for academic year 2017-18 has been prepared.
Participation in ranking	<ol style="list-style-type: none"> 1. The Week: Ranked 12 in Top Private Engineering Colleges in Hyderabad; Ranked 43 in Top Private Engineering Colleges in South India 2. Career 360: AAA+ Rating 3. Times of India: 65th Rank among Top Private Engineering Institutes in India 4. Awarded with AAA+ Credit Rating by Career 360 Magazine

2.15 Whether the AQAR was placed in statutory body: Yes

Management Syndicate any other body

Provide the details of the action taken

Management reviewed the AQAR report and contributed valid suggestions. IQAC agreed and incorporated recommended suggestions.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programme	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	--	--	--	--
PG	05	--	05	
UG	06	--	06	
PG Diploma	--	--	--	--
Advanced Diploma	--	--	--	--
Diploma	--	--	--	--
Certificate	--	--	--	--
Others	--	--	--	--
Total	11	--	11	--

Interdisciplinary				
Innovative				

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	UG – 06 PG – 05
Trimester	--
Annual	--

1.3 Feedback from stakeholders* Alumni

Parents

Employers

Students

(On all aspects)

Mode of feedback: Online Manual Co-operating schools (for PEI)

**Please provide an analysis of the feedback in the Annexure*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- As per the affiliated university guide line the credits for courses changed.
- As per the requirement of industries and feedback of the stakeholders in the Board of Studies meeting, the curriculum and syllabi of individual programmes have been revised.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

New department Electrical and Electronics is introduced

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Asst. Professors	Associate Professors	Professors	Others	Total
	206	62	35	--	303

2.2 No. of permanent faculty with Ph.D.	41
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2.3 No. of Faculty Positions

Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	66	--	09	--	9	--	--	--	84	--

2.4 No. of Guest and Visiting faculty and Temporary faculty	NIL	NIL	NIL
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	41	05	--
Presented papers	28	--	--
Resource Persons	--	10	--

2.6 Innovative processes adopted by the institution in Teaching and Learning:

1. Implementation of Bloom's Taxonomy in the teaching curriculum.
2. Inclusion of concept based tutorial for GATE and core subjects to prepare the students for Competitive examinations.
3. Provision of animation video in the session planner to explain difficult concept in the class.
4. Adoption of Active Learning strategies to shift focus from Teacher-Centric learning to Student-Centric learning.
5. Incorporation of ICT tools in the teaching-learning process.

2.7 Total No. of actual teaching days during this academic year	180
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2.8 Examination/ Evaluation Reforms initiated by the Institution
(for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Bar Coding, Double Valuation Online Multiple
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2.9 No. of faculty members involved in curriculum Restructuring /revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

49		
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2.10 Average percentage of attendance of students

87

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme		Total no. of students appeared	Division				
			Distinction %	I %	II %	III %	Pass %
B.Tech	Aeronautical Engg	56	16.07	35.71	--	--	--
	Computer Science & Engg.	207	12.56	42.51	10.63	--	--
	Electronics & Communications Engineering	222	7.66	39.64	7.2	--	--
	Information Technology	46	4.35	32.62	8.7	--	--
	Mechanical Engg	145	4.14	29.65	20.70	--	--
M.Tech	Aerospace Engg	26	100	--	--	--	--
	CAD/CAM	--	--	--	--	--	--
	CSE	--	--	--	--	--	--
	Embedded Systems	11	100	--	--	--	--
	Digital Systems & Computer Electronics	05	100	--	--	--	--
	Thermal Engg	--	--	--	--	--	--
MBA	Master of Business Administration	53	83.02	16.98	--	--	--

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

IQAC coordinator verifies the Teaching & Learning process by applying the Outcome Based Faculty Assessment Model (OBFAM). OBFAM, an innovation in Teaching-Learning Process, has been designed at MLR Institute of Technology. The monthly assessment of each and every faculty in implementing the Teaching-Learning process defined in OBFAM is carried out by the IQAC

coordinator. The model is based on five criterions. The application of five criterion and the outcomes of the assessment are highlighted in Table 1.

S. No.	Application Criteria	Parameter	Outcomes
1	Criteria I	Average Class Student presence in the month > 65%	<ol style="list-style-type: none"> 1. Improvement in Teaching Standard 2. Decrease in detention due to improvement in class attendance
2	Criteria II (a)	Classes Planned / Conducted	<ol style="list-style-type: none"> 1. Coverage of syllabus as per session planner 2. Uniform coverage of syllabus neither slow nor fast 3. 100% completion of scheduled classes as per time table
3	Criteria II (b)	Session Planned / Conducted	<ol style="list-style-type: none"> 1. 130% increase in number of sessions per subject in the semester increased from 50-50 sessions to 65-70 2. 100% completion of syllabus
4	Criteria III	Course File completion including application of Bloom's Taxonomy	<ol style="list-style-type: none"> 1. Course File completed, updated and maintained as per the defined framework by 100% of the faculty 2. Application of Bloom Taxonomy leads to in achieving course and program outcomes 3. Improvement in problem solving ability due to the inclusion of GATE subjects 4. Better understanding of core subjects due to the inclusion of micro projects as part of it

5	Criteria IV (a)	Students Feedback – Online	<ol style="list-style-type: none"> 1. Awareness to the faculty about their strength and weakness based on students feedback online/oral taken every month. 2. Improvements in faculty strengths. 3. Provision of better faculty for core subjects.
	Criteria IV (a)	Students Feedback	Online
	Criteria IV (c)	Faculty Preparedness Evaluation	<ol style="list-style-type: none"> 1. Improvement in faculty preparedness before launching a unit for his/her subjects.
6	Criteria V (a)	Internal Duties	<ol style="list-style-type: none"> 1. Streamlining of procedure for the conduct of mini / main projects. 2. Increase in the involvement of faculty in guiding the projects
	Criteria V (b)	Admin Duties	<ol style="list-style-type: none"> 1. Improvement in students certification programmes / FDP / Workshops. 2. Improvement in industry institute interaction. 3. Improvement in co-curricular and extracurricular activities.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	72

UGC – Faculty Improvement Programme	61
HRD programmes	07
Orientation programmes	5
Faculty exchange programme	--
Staff training conducted by the university	5
Staff training conducted by other institutions	16
Summer / Winter schools, Workshops, etc.	103
Others	21

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	46	--	11	--
Technical Staff	57	--	23	--

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

A number of initiative have been taken by IQAC in promoting quality research work. The activities carried out during the A.Y.2016-17 are given below:

1. Setting up of a separate R&D Cell in the institution. All Ph. D faculties have been placed under the R&D Cell to enable them to contribute towards Research work.
2. Motivation to the faculty to publish quality papers in journals indexed in Scopus/WoS by giving them an amount equal to non-class work 15% basic pay for months (Nov/Dec of the current academic year and May/Jun of the next academic year).
3. Incentive to the faculty to encourage them to carryout quality research work as per details given below.

- The college will reimburse the article processing charges for all the accepted research papers (if any) in both journal and conferences.
- Research incentives are given to the faculty members who publish papers in Scopus/WoS indexed free journals (maximum of Rs.30,000/-)
- 100% fees reimbursement for conferences conducted in India. Also, TA & DA will also be paid.

➤
4. A unique mentoring scheme has been introduced to accelerate the numbers of publications in quality journals. In this scheme, a mentor can have a team of mentees and achieve 50 points in publication of papers in a calendar year. Each paper published in journals indexed in Scopus is awarded 5 points. Each point is rewarded an amount of Rs.5000/-. As such, a mentor can each an amount of Rs.2.5 lakhs which he can share with his/her mentees. This scheme has resulted in a good number of publications in journals indexed in Scopus.

5. All the faculty members are encouraged to register for Ph.D in good universities (UGC Approved). The college will provide soft loan (maximum of Rs.50,000/-) to the faculty members to mitigate their financial needs for Ph.D programme such as fee, research work, publications etc. Facilities will also be given on duty in carrying out research work (maximum of 6 days during non-class work period).

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	3	5	--
Outlay in Rs. Lakhs	--	55.46	133.91	--

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	--	--
Outlay in Rs. Lakhs	--	--	--	--

3.4 Details on research publications

	International	National	Others
Peer Review Journals	292	--	--
Non-Peer Review Journals	--	--	--
e-Journals	--	--	--
Conference proceedings	19	--	--

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organizations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	3 years	DST	133,91,220/-	4,00,000/-
Minor Projects	--	--	--	--
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Projects sponsored by the University/ College	--	--	--	--
Students research projects (other than compulsory by the University)	--	--	--	--
Any other	--	--	--	--
Total	--	--	133,91,220/-	4,00,000/-

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST

DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme

INSPIRE CE Any Other (DST)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	01	--	--	--	1
Sponsoring agencies	SERB	--	--	--	--

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations: International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From funding agency From management of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	14
	Granted	--
International	Applied	--
	Granted	--
Commercialized	Applied	--
	Granted	--

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
26	--	26	--	--	--	--

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

2

2

3.19 No. of Ph.D. awarded by faculty from the Institution

--

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Any other

3.21 No. of students Participated in NSS events:

University level State level

National level International level

3.22 No. of students participated in NCC events: University State level

National International level

3.23 No. of Awards won in NSS: University State level

National level International level

3.24 No. of Awards won in NCC: University level State level

National level State

3.25 No. of Extension activities organized

University College forum

NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers co-ordinated in such activities	Number of students participated in such activities
Haritha Haaram	NSS, MLRIT	6	100

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers co- ordinated in such activities	Number of students participated in such activities
Book Donations to orphans in Bharath Nagar	NSS, MLRIT	6	10
Swatch Bharat Survey at Medchal and Malkajgiri districts	Call from District Collector	6	50
Free Medical Camp at Domadugu Village	Aasya Health Foundation	6	10
Skill Development Programme at Orphan Home, Bharath Nagar	NSS, MLRIT	6	10
Camp on Environmental and Leadership Training at CMR	State Government of Telangana	6	5
Mega Blood Donation Camp, MLRIT	NSS, MLRIT	6	150
Awareness and Campaign for Enrollment of Youth Electors	NSS, MLRIT	6	10
Mega Blood Stem Cell Donors Registry Program	DATRI Foundation	6	5
State Level Workshop on Youth and Health	JNTUH, NSS Cell	6	20
Surveyed and Adopted 6 villages in Medchal District	NSS, MLRIT	6	50

Criterion – IV

4. Infrastructure and Learning Resources

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	29271	6920862	1234	534800	30505	7455662
Reference Books	2212	544828	225	96960	2437	641788
e-Books	1210	-	-	-	1210	-
Journals	1296	2613134	243	508645	1539	3121779
e-Journals	15131	3369073	170	13570	15301	3382643
Digital Database	11025	75500	-	5000	11025	80500
CD & Video	2060	-	21	-	2081	-
Others(NPTEL Videos)	11025	-	-	-	11025	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1329	45	100 Mbps	1	1	1	7	-
Added	220	-	-	-	-	-	-	-
Total	1549	45	100 Mbps	1	1	1	7	94 disposed

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

Virtusa Polaris Informatica Centre, Big Data, Internet of Things, Mobile Application Development, EPICS

4.6 Amount spent on maintenance in lakhs

i) ICT	6,32,650/-
ii) Campus Infrastructure and facilities	2,26,47,658/-
iii) Equipments	19,37,624/-
iv) Others	28,53,747/-
Total:	2,80,71,679/-

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

A career guidance cell has been setup to improve the students' performance in placement and higher education. To provide students with international standard sports facilities, a cricket ground, a gym, table tennis academy and an indoor stadium have been established. Further, sports scholarship has been provided.

5.2 Efforts made by the institution for tracking the progression

The activities are monitored and reviewed during academic council and board of governor meetings. Action taken to overcome any deficiency.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3213	392	--	--

(b) No. of students outside the state

322

(c) No. of international students

--

No	%	Men	No	%	Women
2627	72.88		978	27.12	

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1663	499	200	963	--	3325	1802	541	217	1045	--	3605

Demand: 1:6

ratio Dropout %: 2.2

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Technical Aptitude training class
- Training Program on New Technologies
- Business English Certificate(BEC) Coaching
- Gate Coaching class
- Career development programmes – soft skills, aptitude, value added programmes.

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT

IAS/IPS et State PSC UPSC Others

5.6 Details of student counseling and career guidance

- Counseling by faculty advisors during Tutor hours to strengthen students' academic performance, involvement in co-curricular activities and morality.
- Organizing career guidance programmes every semester by inviting experts from industries.
- Organizing seminars conferences, guest lectures, workshops.

No. of students benefitted

6.7 Details of campus placement

<i>On campus</i>		<i>Off Campus</i>	
Name of Organizations	Number of Students Placed	Name of Organizations	Number of Students Placed
EPAM SYSTEMS INDIA PRIVATE LIMITED	3	IBM INDIA PRIVATE LIMITED	1

NCR CORPORATION INDIA PRIVATE LIMITED	3	WHISK SOFTWARE PVT LTD	1
CANURE INNOVATION PVT LTD	1	COGNIZANT TECHNOLOGY SOLUTIONS INDIA PRIVATE LIMITED	17
TATA ADVANCED SYSTEMS LIMITED	2	TECH MAHINDRA LIMITED	2
STERLING & WILSON PVT. LTD.	1	WIPRO LIMITED	3
AASEYA IT SERVICES PRIVATE LTD	1	DELL INTERNATIONAL SERVICES INDIA PVT. LTD	1
SANKALP SEMICONDUCTOR PRIVATE LIMITED	1	SYNTEL PRIVATE LIMITED	6
ACCENTURE SOLUTIONS PVT LTD	11	REVA INFOLAB SOLUTIONS PVT LTD	4
TATA CONSULTING SERVICES LIMITED	15	JUST DIAL LIMITED	5
IBS SOFTWARE (P) LIMITED	2	ECLINICALWORKS INDIA PVT. LTD.	2
DXC TECHNOLOGY INDIA PRIVATE LIMITED	1	CAMP SYSTEMS PVT. LTD	3
VIRTUSA CONSULTING SERVICES PVT. LTD.	6	POWER MECH	1
VALUEMOMENTUM SOFTWARE SERVICES PRIVATE LIMITED	4	24/7 CUSTOMER CARE PVT LTD	1
CYIENT LIMITED	5	MECHLOWICZ	1
TECH MAHINDRA LIMITED	1	KNOAH SOLUTIONS PVT LTD	1
WIPRO LIMITED	6	VIRINI TECHNOLOGIES PVT LTD	1
CAPGEMINI TECHNOLOGY SERVICES INDIA LIMITED	15	CORECOGENT	1
NTT DATA GLOBAL DELIVERY SERVICES PRIVATE LIMITED	9	LSN SOFTWARE SERVICES PVT. LTD.	1
GREYCAMPUS EDUTECH PRIVATE LIMITED	6	VERSATILE MOBITECH PVT LTD	1
TECHNOVERT SOLUTIONS	2	WIPRO BPO SOLUTIONS	1
MPHASIS LIMITED	23	ABJAYON	1
PROLIFICS CORPORATION LIMITED	2	IBM	2
INTELENET GLOBAL SERVICES	1	TECH MAHENDRA	1
CMS IT SERVICES PVT. LTD.	2	SITEL	1
TRIANGLE	11	CENIT HUB	1

INCORPORATIONS			
ALIENS GROUP	8	INUBE	1
ORBIT SOFTWARE SOLUTIONS	1	AASAANJOBS	1
SARVA KARMA SOLUTIONS PVT LTD	2	ZENSAR	1
TVARANA SOFTWARE SOLUTIONS PRIVATE LIMITED	3	KELLTON	1
RAPID ROBOTICS	1	TELEPERFORMANCE	1
CMS IT SOLUTIONS	2	VEDHA NARSIMHA CONSULTANCY	1
EDVENSWA TECH PVT LTD	1	APADCL	1
TJS SOLUTIONS	1	ITC LTD	1
RUSAN HEALTH CARE	1	EMIZA	1
OPTUM	2	PENNA CEMENT	1
ENTUPLE TECHNOLOGIES	20	IDC TECHNOLOGIES SOLUTIONS INDIA PRIVATE LIMITED	1
EDVENSWA TECH PVT LTD	1		
Excel VLSI Technologies Pvt Ltd	1		
INTEL	1		

5.8 Details of gender sensitization programmes

S.No	Title of the program	Period (from to)	Boys	Girls
1	A Lecture on Gender Sensitization and Globalization	24/08/2017 - 24/08/2017	39	53
2	A Session on 'Sexual Harassment at the Workplace'	06/09/2017- 06/09/2017	57	62
3	A Session on 'Gender Discrimination in India'	25/09/2017- 25/09/2017	39	58
4	Awareness of "Constitutional Rights and Responsibilities in achieving gender equality"	05/10/2017 - 05/10/2017	41	57
5	A Session on "Encouraging 3 rd Gender at the Workforce	24/10/2017 - 24/10/2017	38	51
6	A Lecture on Gender and Social Media	18/11/2017 - 18/11/2017	51	72
7	A Talk on Awareness Program on HIV - AIDS	01/12/2017- 01/12/2017	62	90

8	International Women's Day Celebrations- A Women's Hub	08/03/2018 - 08/03/2018	--	132
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5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	412	4167400
Financial support from government	1991	80307000
Financial support from other sources	Nil	--
Number of students who received International/ National recognitions	Nil	--

5.11 Student organized / initiatives

Fairs: State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: **Nil**

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision: To create and nurture competent Engineers and managers who would be enterprise leaders in all parts of the world with aims of reaching the skies and touching the stars and yet feet firmly planted on the ground – good human beings steeped in ethical and moral values.

Mission: MLR Institute of Technology is committed to providing a positive, professional and conducive learning environment where all students are inspired to achieve their potential and strive for excellence in a global society as dignified professionals with the cooperation of all stakeholders.

6.2 Does the Institution has a management Information System: **Yes**

The institution has a MIS in place used for decision-making, coordination and control.

Finance and Accounts

The college uses Tally9.0 software for transparent functioning of Accounts department. All the transactions are at one click away. The salaries are calculated by integrating the biometric of the teaching and non-teaching staff. The payments for different purchases are carried through NEFT / RTGS.

Student Admission and Support

Students can pay their fees (hostel, exam etc) through online. Even they can check the results, Backlogs etc through online portal. The parents and students can as well check the daily attendance, topics covered cumulative attendance in the portal itself. The course structure, syllabus, CoEs in the college, library facilities etc information is available in the college website.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

In an attempt to compensate for the deficiencies by providing specialized training in technical skills as well as communication and problem solving skills every week 10 hrs (after college regular timings) are planned in order

- To nurture excellence in professionalism and human conduct.
- To develop a deep understanding of corporate psychodynamics and expectations from employees
- To help students experience the elements of persona building and self grooming

To take students on a journey through choosing the right job into understanding the mind of the recruiter to make it there while building competence in elements like resume building, cover letters, email etiquette, interviews and follow-up.

6.3.2 Teaching and Learning

The Auditing of the teaching learning is carried by the coordinator Internal Quality Assurance Cell (IQAC). The following documents are verified during audit:

- a) Course File
- b) Attendance Register
- c) Leave Record/Adjustment classes filled in the calendar sheet.
- d) File/documents showing the proof of activities completed
- e) Students Feedback Online Report.
- f) Students Feedback Oral Report
- g) Faculty Preparedness Evaluation Report.

The discrepancies, if any, observed for the faculty are recorded. The recording of discrepancies and its rectification immediately ensures continuous Quality Improvement in the Teaching –Learning Process. If the noncompliance of a particular activity affects a large number of faculties, such noncompliance is reported to the seniors. In such cases, workshop/seminars are conducted for guiding the faculty in the proper understanding of the activity.

6.3.3 Examination and Evaluation

All the processes of examination and evaluation are automated using a custom made BEES software package.

6.3.4 Research and Development

Entrepreneurship cell at (MLRIT) is named as “Centre for Innovation and Entrepreneurship-Srushti” shortly called as “CIE”. The Major Goal of it is to promote and support technology-based entrepreneurship spirit among the graduated and graduating students of MLRIT.

CIE-Srushti, wishes to facilitate the creation of ideas and inventions that benefit society. To this end, CIE, has established an Incubation centre and adopted this Incubation Policy to provide guidance and management structure to facilitate the development of entrepreneurship.

Incubation center supports:

- Early stage startups
- Mid to large sized companies with developed ideas

Mentors to help our startups

6.3.5 Library, ICT and physical infrastructure / instrumentation

Library holds a hybrid collection of printed as well as electronic resources which include books, journals, back volumes of periodicals, technical magazines, project reports, e-databases, e-journals, e-books, CDs/DVDs etc. Subject expert video lectures delivered by various eminent resource persons

are available in the digital library. This facilitates the faculty and students to utilize the Portal of NPTEL Content, SWAYAM, MOOCs, e-Journals and e-Books etc.

Internet access is provided to all the students and faculty members for the benefit of their academic curriculum, research and development. As the e-resources access is IP based, the students and faculty members can take benefit of this facility from anywhere in the campus through intranet. To improve the skill of staff and students, they are encouraged to become members of National Digital Library (NDL). Faculty use study material and videos available in NDL portal to discuss the latest developments and complex topics in classrooms as well as their research.

6.3.6 Human Resource Management

Performance Based Rating Schemes has been evolved to reward the faculty annually by means of increments/promotion, UGC based faculty self-appraisal for API has been introduced for faculty with Ph.D qualification. The institute provides faculty sponsorship for

- ❖ Conferences, Workshops, Faculty Development Programs
- ❖ Transport facility at subsidized cost
- ❖ Offers membership fee for professional society membership
- ❖ Increments based on Performance based appraisal
- ❖ Lab technicians are encouraged for pursuing higher education
- ❖ Maternity leave facility
- ❖ Research Leave during Non-class work period.
- ❖ Group Insurance
- ❖ Professional Body Membership fee

Reimbursement of registration cost for Online Course (NPTEL)

6.3.7 Faculty and Staff recruitment

As per the guidelines issued by UGC / AICTE / JNTUH the faculty recruitment is carried out depending on the availability of vacancies.

6.3.8 Experts from industry are identified for their participation in curriculum development. The department of aeronautical engineering has collaborated with AerX Labs India Pvt Limited and established Centre of Excellence for Flight Simulation Lab. Dassault Systèmes that provides paid Internships to the students. It has also collaborated with CSIR-NAL in establishing Composite & Flight Simulation lab and providing internships to M.Tech students. The institute has also collaborated with TATA Technologies in establishing the PLM Lab and providing training to the students. The total expenditure shared by TATA Technologies and MLRIT (50%+50%). A centre of excellence in collaboration with Virtusa on informatica.

6.3.9 Admissions to the Institute are made along with the other engineering colleges in the state through a common entrance test conducted by the Govt. of Telangana / Andhra Pradesh. 70 % of the seats are allotted based on the merit in the Engineering and Medical Common Entrance Test (EAMCET) conducted by Govt. of Telangana /Andhra Pradesh. 30 % of the seats are earmarked for Management / NRI candidates.

Sports Scholarship (Free admission) every year for 35 students. To a tune of 1.5 cr.

B.Tech - 10 seats

M.Tech - 10 seats

MBA - 15 seats

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done Yes No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	NBA	Yes	IQAC
Administrative	No		Yes	IQAC

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes Yes No

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

In order to extend the benefit to the students with one/two backlogs after either 6th semester or 8th semester, GRAFTING option is provided to the students enabling their placements and fulfilling graduation requirements.

1. Grafting will be done among the courses within the semester. Shall draw a maximum of 7 marks from the any one of the cleared courses in the semester and will be grafted to the failed course in the same semester.
2. Students shall be given a choice of grafting only once in the 4 years programme, either after 6th semester (Option#1) or after 8th semester (Option#2).

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The university gives some autonomy and guides the institute in Curriculum design, question paper setting.

6.11 Activities and support from the Alumni Association

Alumni are active members of Board of studies of all departments. Board of studies incorporates valid recommendations of alumni in curriculum design and development.

6.12 Activities and support from the Parent – Teacher Association

- ❖ Parent's involvement for field visits - Some of the parents work in companies like BHEL, HAL and some own their companies. These parents helped in getting permission to visit the industry so that students are given exposure to industry standards and procedures. We could take our students to ARCI, Air force Academy etc.
- ❖ Parent's involvement during curriculum design – We have students whose parents are principals at schools, assoc. Professors and professors at other engineering colleges. They constantly speak to the HoDs and give suggestions. For example COSHISS – Consortium of Students Helping Improve Speaking Skills was implemented.

6.13 Development programmes for support staff

- Full fee refund for NPTEL / MOOCs certification programs- All support staff are encouraged to get NPTEL / MOOCs certificates in the subject area. The examination fee is fully refunded.
- Special training to enhance skills in areas like welding, Lathe machines, ICT etc – Based on the specialized skill required at different laboratories, the support staff is given skill enhancement training. Free transport facility

6.14 Initiatives taken by the institution to make the campus eco-friendly

- **Restricted entry of automobiles:** The institute encourages the staff and students to use the college transport instead of their own vehicles for safety, security, fuel conservation and to reduce environmental pollution. A bar gate is kept at the entrance to avoid the movement of vehicles beyond the parking point.
- **Use of bicycles/ Battery-powered vehicle:** Students and staff are encouraged to use bicycles/ Battery-powered vehicle within the campus as they are environment friendly and prevents pollution. For this, the management made 20 bicycles and 2 Battery-powered vehicles available in the campus.

- **Pedestrian-friendly pathways:** The institute has pedestrian friendly pathways for comfortable walking inside the campus. The roads inside the campus are lined with trees and solar lights and are properly maintained.
- **Ban on use of plastic:** To restrict the use of plastic, the institute has banned single-use plastic items such as plastic bottles, bags, spoons, straws and cups within the campus.
- **Landscaping:** The institute has a canopy of trees and plants to make the campus pollution free. The lawns and the trees provide shade and beautiful ambience. Utmost care is taken to maintain green landscaping by trained gardeners and supervisors.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Skill development of students to empowers them by implements prior activities viz

- Micro Projects implemented from Sem-I for better understanding of concern.
- Micro projects evaluation is done based on SPEED (Student platform)
- EPICS (Engineering Projects in Community Services) to harness community awareness and Promote grass roots innovation.
- Encouraging students to participate in competitions.
- Concept oriented tutorial to improve the performance of the students in GATE and other competitive examination.
- Changed assessment laboratory conduction.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Plan of Action of the begging of the year	Action taken Report
Effective implementation of Active learning Strategies	Completed
Focus on quality Research Publications in high impact and free journals	
Up gradation of Syllabus to narrow the gap between academic and industry needs Completed	
Teacher training programme to improve teacher's effectiveness on student performance	
Improvement in examination papers to assess analytical and problem solving capabilities of students	

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

- ❖ **Holistic Development of MLRITIANS:** MLRIT focuses on the development of a student's physical, cognitive, social, and psychological capabilities and promotes critical and innovative thinking within an academic setting. As a result, the college is committed to supporting holistic learning. The phrase "holistic education" refers to the development of students' multi-faceted abilities with the goal of assisting them in dealing with life's necessities and constraints while also providing them with possibilities based on their skills and interests. Since gaining autonomy, the institution has made it a point to change its curriculum every year to allow for academic flexibility. This allows students to receive exposure to a variety of

academic and non-academic disciplines of study. As a result, they will be able to choose their particular location inside the current global knowledge system.

- ❖ **“MLRIT”-Social Connect:** From the time of its inception, MLRIT has remained well connected with societal-centric activities and focuses on education along with societal responsibility that enriches the skills of its student fraternity and enables them to get a better understanding of real-world problems. The institutional values of altruism, service, and community orientation are the key determinants of this commitment. There has always been some form of exchange of knowledge, resources, and services between the HEIs and the proximate communities. Community service and association with local communities are key to the development of a value-based future generation. It is not a new arena and the prominence of community and societal connections with the higher educational institutions elevates students into better citizens of the society. However, the organized process of such exchange, called 'community engagement,' has increased in importance.

7.4 Contribution to environmental awareness / protection

The institute has the goal to protect the environment through the implementation of Green Campus Policy in the campus and nearby villages. The intention of the Policy is to keep the campus pollution-free and also create an ecology that promotes a comfortable learning environment for the students and a better environment for the nearby villagers. Green club of the institute along with NSS is coordinating the environment awareness protection activities. The Green Club and NSS unit of the Institute strives

- To protect and preserve ecological systems and resources within the campus.
- To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste, wherever possible.
- NSS is coordinating the environment awareness protection activities. Management has accorded a lot of attention to maintain green campus. Waste water recycling, hazardous waste management, tree plantation drives and water harvesting are carried out to provide eco-friendly campus.

7.5 Whether environmental audit was conducted?

No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Institutional Strengths:

1. UGC Autonomous status and NBA Accreditation for all departments.
2. Sports facilities with international standards.
3. Industry supported Centre of Excellences (CoE) in all departments.
4. In-house boys and girls hostels.
5. Student Centric learning.
6. Outcome Based Education.

Institutional Weakness:

1. Less number of Ph.D qualified faculty member
2. Insufficient consultancy and patents

8. Plans of institution for next year

1. Implementation of AICTE model curriculum including introduction of Industry Oriented Courses.
2. Quality Audit of Teaching Learning Process.
3. Improvement in MOOCS Certification by the faculty.
4. Introduction of Engineering Projects in Community Services in the Curriculum.
5. Research Publications in High Impact Journals.
6. Placements in core companies and increase in mean salary.
7. Online evaluation of answer scripts.
8. To improve ambience of class room.

*Name: Prof.K.L.Chugh
Professor & Dean in CS*

*Name: Dr.K. Srinivas Rao
Professor & Principal*

Signature of Coordinator, IQAC

Signature of the Chairperson, IQAC