

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR)

for the

A.Y. 2016 – 17



MLR

Institute of Technology

(Autonomous)

(Approved by AICTE, Accredited by NBA, Permanently Affiliated to JNTU)

Laxma Reddy Avenue, Dundigal-Gandimysamma (M), Medchal (Dist), Hyd-500043

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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.

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Name of the Head of the Institution:

Dr.P.Bhaskara Reddy

Tel. No. with STD Code:

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9949810842

Name of the IQAC Co-ordinator:

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:

(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)

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

1.5 Website address:

www.mlrit.ac.in

Web-link of the AQAR:

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

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

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.12	2016	11-07-2016 to 10-07-2021
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

30-08-2016

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

2016-17

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 _____ (DD/MM/YYYY)4
- 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 Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

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

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other
(UGC Autonomous)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

05

2.2 No. of Administrative/Technical staff

02

2.3 No. of students

--

2.4 No. of Management representatives

01

2.5 No. of Alumni

01

2.6 No. of any other stakeholder and
community representatives

--

2.7 No. of Employers/ Industrialists

01

2.8 No. of other External Experts

--

2.9 Total No. of members

10

2.10 No. of IQAC meetings held

04

2.11 No. of meetings with various stakeholders:

No.

06

Faculty

04

Non-Teaching Staff Students

01

Alumni

01

Others

--

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

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

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

Total Nos. International National State Institution Level

(ii) Themes

1. To improve the Teaching-Learning process for the I-Year subjects with emphasis on better results like Data Structure (DS), Engineering Mechanics (EM) and Engineering Drawing (ED).
2. To promote Active Learning strategies with an aim to shift learning from Teacher-Centric to Student-Centric.
3. To encourage the faculty to publish papers in quality journals indexed in Scopus and Web of Sciences (WoS) by implementing Research Incentive Schemes.
4. To motivate the faculty for better performance in executing the curriculum by introducing Performance Based Incentive (PBI).
5. 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
To conduct IUCEE International Engineering Educator Certified Programme (IEECP)	Nine faculties have completed all the phases of the programme and awarded IUCEE, IEECP certification. Further, 24 faculty have completed the phase I of IUCEE IEECP programme. The IEECP programme deals with imparting knowledge on Active Learning Strategies and is conducted by IUCEE
To conduct workshop for faculty to introduce Active Learning in the Classroom teaching	Faculty of Depts. of CSE, IT, ECE, Mech, Aero and H&S have been trained to implement Active Learning in the curriculum. The FDP for all the faculty was conducted by the nine IUCEE IEECP certified faculty

To organize Research Methodology workshop with an aim to improve the quality of research work	The workshop was conducted from 19 th to 24 th June 2017. The resource persons included Dr. V.Ganeshan Emeritus professor, IIT Madras, Dr. Srinivas Rao, Scientist RCI, Hyderabad and other eminent experts. 30 faculty of Aero / Mech department participated in the workshop
Workshop on Impact of Teachers effectiveness on students achievement	The workshop was conducted by Prof ML Sai Kumar, IPE on 16-17 Nov. 2016. 30 faculty members attended the workshop
Workshop on “A positive Attitude-Transforming an average to good and excellent teacher”	The workshop was conducted by Mr. Subha Raju Kalidindi on 3-4 June 2017. 40 faculty members attended the workshop
BEC training for English faculty of I-Year	Mr. Emanuel Raju, Cambridge Centre conducted the training sessions for 10 English faculty

2.15 Whether the AQAR was placed in statutory body

Yes No

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 Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD				
PG	07	--	07	--
UG	05	--	05	--
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	12	--	12	--
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 – 05 PG – 07
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 a step towards to Choice Based Credit System (CBCS), open electives have been introduced in the existing curriculum of Regulation 2016.
- ♦ 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.

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Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	299	194	72	28	05

2.2 No. of permanent faculty with Ph.D. 34

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
	57	--	14	--	06	--	--	--	77	--

2.4 No. of Guest and Visiting faculty and Temporary faculty Nil Nil Nil

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	30	3	--
Presented papers	25	--	--
Resource Persons	--	6	--

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

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions) Double Valuation

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop 0 9 2

2.10 Average percentage of attendance of students

85%

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	69	7.25	43.48	5.80	--	--
	Computer Science & Engg	192	11.46	51.56	13.54	--	--
	Electronics & Communications Engg	182	16.48	49.45	5.49	--	--
	Information Technology	45	6.66	42.22	8.88	--	--
	Mechanical Engg	158	10.76	50.00	13.30	--	--
M.Tech	Aerospace Engg	34	85.30	14.70	--	--	--
	CAD/CAM	20	80.00	20.00	--	--	--
	CSE	14	85.70	14.28	--	--	--
	Embedded Systems	19	94.73	5.26	--	--	--
	Digital Systems & Computer Electronics	07	100.00	--	--	--	--
	Thermal Engg	06	83.33	16.67	--	--	--
MBA	Master of Business Administration	24	4.16	87.50	8.33	--	--

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 \geq 65%	<ol style="list-style-type: none"> Improvement in Teaching Standard 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 (b)	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	65
UGC – Faculty Improvement Programme	55

HRD programmes	05
Orientation programmes	05
Faculty exchange programme	--
Staff training conducted by the university	4
Staff training conducted by other institutions	14
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	40	--	12	--
Technical Staff	55	--	22	--

Criterion – III

3. Research, Consultancy and Extension

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

A number of imitative 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	--	13	13	--
Outlay in Rs. Lakhs	--	180.90	96.97	--

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	--	1	--
Outlay in Rs. Lakhs	1.00	--	1.00	--

3.4 Details on research publications

	International	National	Others
Peer Review Journals	105	5	--
Non-Peer Review Journals	5	--	--
e-Journals	--	--	--
Conference proceedings	20	5	--

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 organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	3 years (2016-17 to 2019-20)	DST	1,80,92,600/-	96,97,490/-
Minor Projects	--	--	--	--
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Projects sponsored by the University/ College	--	--	--	--
Students research projects (other than compulsory by the University)	--	--	--	--
Any other	--	--	--	--
Total	--	--	1,80,92,600/-	96,97,490/-

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	1	2	1	--	--
Sponsoring agencies	IUCEE	DST & CSI	CSI	--	--

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

19

3.13 No. of collaborations

International

7

National

15

Any other

3.14 No. of linkages created during this year

3

3.15 Total budget for research for current year in lakhs :

From Funding agency

--

From Management of University/College

25 lakhs

Total

25 lakhs

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	02
	Granted	0
International	Applied	176
	Granted	0
Commercialised	Applied	01
	Granted	0

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

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

1

2

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

3

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

JRF

1

SRF

--

Project Fellows

1

Any other

--

3.21 No. of students Participated in NSS events:

University level

80

State level

88

National level

60

International level

10

3.22 No. of students participated in NCC events:

University level

6

State level

6

National level

01

International level

--

3.23 No. of Awards won in NSS:

University level	8	State level	6
National level	3	International level	--

3.24 No. of Awards won in NCC:

University level	--	State level	--
National level	--	International level	--

3.25 No. of Extension activities organized

University forum	05	College forum	20		
NCC	--	NSS	40	Any other	3

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

- ♦ Telanganaku Haritha haram by Govt.of telangana at college campus on 18th July 2016
- ♦ Blood Donation Camp on 06th December 2016
- ♦ Medical camp and free Medicine distribution at IDPL Gandhinagar and Bhagatsingh Nagar areas on 04th December 2016
- ♦ University Level Workshop On Cashless Transactions & Payments
- ♦ National Youth seminar On occasion of Birth Anniversary of Swami Vivekananda on 17th January 2017
- ♦ Digital Financial Literacy Campaign from 12th Dec 2016 to 12th Jan 2017.
- ♦ Awareness program on “104 Satellite Launching” at 10 Different government schools on 17th February 2017
- ♦ NSS-MLRIT volunteers participated in one week Residential special camp organized by JNTU Hyderabad

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	48,339.50 Sq.M	--	Self Financing & Bank Loan	48,339.50 Sq.M
Class rooms	65	0		60
Laboratories	72	2		74
Seminar Halls	5	0		5
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	49	7		56
Value of the equipment purchased during the year (Rs. in Lakhs)	2,13,97,469/-	14,47,263/-		2,28,44,732/-
Others (Sports Complex, Cricket Stadium & Gym)	--	5,27,00,000/-		5,27,00,000/-

4.2 Computerization of administration and library

- ✦ Use of OPAC automation software in library.
- ✦ Use of computers and data storage in all administration & library sections.
- ✦ Use of BEES automation software for student attendance and assessment marks entry.
- ✦ Use of Bio-metric finger print system for staff & students attendance.
- ✦ Use of Tally software for account maintenance.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	30174	66,37,800-00	1309	5,01,245-00	31483	71,39,045-00
Reference Books						
e-Books	1525		225		1750	
Journals	1627	21,41,985-00	225	4,83,500-00	1852	26,25,485-00
e-Journals	IEEE& Springer, Elsevier, Gale Cengage Learning , DELNET	24,01,265-00	IEEE & DELNET	7,75,710-00	IEEE& Springer, Elsevier, Gale Cengage Learning , DELNET	31,76,975-00
Digital Database						
CD & Video	1925		105		2030	
Others(NPTEL Videos)	10025		1000		11025	

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1338	41	100 Mbps	1	1	1	7	5
Added	140	04	150 Mbps	--	--	--	--	--
Total	1478	45	250 Mbps	1	1	1	7	5

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

VirtusaPolaris Informatica Centre, Big Data, Internet of Things, Mobile Application Development, EPICS
--

4.6 Amount spent on maintenance in lakhs :

i) ICT	3,54,485/-
ii) Campus Infrastructure and facilities	32,68,412/-
iii) Equipments	11,52,505/-
iv) Others	2,81,31,400/-
Total:	3,29,06,802/-

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 have 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
746	206	--	--

(b) No. of students outside the state

100

(c) No. of international students

Nil

Men	No	%	Women	No	%
	660	69.32		292	30.68

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
341	104	25	434	--	904	408	107	31	406	0	952

Demand ratio

Dropout %

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

365

5.5 No. of students qualified in these examinations

NET	<input type="text" value="--"/>	SET/SLET	<input type="text" value="--"/>	GATE	<input type="text" value="03"/>	CAT	<input type="text" value="--"/>
IAS/IPS etc	<input type="text" value="--"/>	State PSC	<input type="text" value="--"/>	UPSC	<input type="text" value="--"/>	Others	<input type="text" value="--"/>

5.6 Details of student counselling and career guidance

- ♦ Counselling 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

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
25	372	271	25

5.8 Details of gender sensitization programmes

- ♦ Women's Day Celebration :
- ♦ Various Competitions and cultural programmes were conducted for UG, PG girl students, women staff on the occasion of Women's Day.

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	--	--
Financial support from government	1935	7,33,46,000/-
Financial support from other sources	--	--
Number of students who received International/ National recognitions	--	--

5.11 Student organised / initiatives

Fairs : State/ University level **06** National level **02** International level **01**

Exhibition: State/ University level **01** National level **--** International level **--**

5.12 No. of social initiatives undertaken by the students **150**

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**

Institutional Automation System:

- ♦ The aim of this practice is to introduce automation in the administrative system (Office administrative system, Student administrative system & Library administrative system) and the academic activities of the college
- ♦ The main aim of the implementation of automation is to reduce the paper works.
- ♦ To get / access accurate and precise data
- ♦ The system is having the following features:
 - Student Management
 - Staff Management
 - Examination Management
 - Library Management

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

6.3.1 Curriculum Development

Board of Studies (BoS) have been constituted for each programme. The members of BoS include experts from the JNTUH (Affiliating University), OU, University of Hyderabad and the industries. The BoS meets at least once in a year to review the curriculum. The review consists of removal of old syllabus, inclusion of current subjects/technology/tools and provision of industry needs to narrow the gap between academic and industry.

6.3.2 Teaching and Learning

Quality improvement strategies pertaining to teaching and learning adopted during the current A.Y.2016-17 include the following.

- (a) Implementation of Blooms Taxonomy in the curriculum to fulfil the needs of Outcome Based Education (OBE).

- (b) Inclusion of concept based tutorial to achieve better performance of the students in the competitive examinations.
- (c) Provision of animation videos for better understanding of difficult concepts by the students.
- (d) Adoption of active learning strategies to promote analysis, synthesis and evaluation

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

A number of initiatives have been taken in improving the quality of paper publications. The quality of paper publications relate to publication in journals indexed in Scopus and WoS (Web of Science/Thomson Reuter). The initiatives have resulted in substantial increase in publication indexed in to data base of Scopus.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- ♦ The college boasts a well-stocked and digitalized central library with college and department-wise division to ensure easy, quick and efficient access to desired data.
- ♦ Library automation & OPAC online access system have been employed in library.
- ♦ Provide access to e-journals such as IEEE, Science Direct, DELNET, NMEICT, N-list
- ♦ The Librarian helps the departments to purchase the latest edition of the books as per the requirement of the teachers.
- ♦ Every department has individual air-conditioned seminar hall with LCD projector, system with internet connection.
- ♦ ICT the teaching learning process has been automated by the use of MIS.
- ♦ Physical infrastructure /instrumentation the physical infrastructure has been upgraded by improving the quality of class rooms, which have been equipped with LCD, Electronics Board, WiFi and Computer Systems. The lab infrastructure has been improved with the addition of three Centres of Excellences ((CoEs) in each department. The CoEs pertain to the latest cutting edge technologies like Big Data, IoT, Mobile Application Development, CAD/CAM, 3D Printings, VLSI, Robotics and PML (Project Management Life Cycle).

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.

6.3.7 Faculty and Staff recruitment

The quality of human resources has been improved by recruiting a number of faculty with Ph.D qualifications and also faculty with experience in industry.

6.3.8 Industry Interaction / Collaboration

Members of industry have been included in the Board of Studies (BoS) to provide input related to the needs of the industry. Further, a number of MoUs has been signed with industry as part of industry/interaction/collaboration

6.3.9 Admission of Students

The quality of admitted students has improved because of higher ranked students choosing the college as first choice in the EAMCET Counselling.

6.4 Welfare schemes for

Teaching	Provide Transport, EPF & Group Insurance facility for all teaching staff members
Non teaching	Provide Transport, EPF, ESI & Group Insurance facility for all non teaching staff members
Students	Health Care Centre, Health Insurance, Free seats for Out Standing Sports persons

6.5 Total corpus fund generated

Nil

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	No	--	Yes	Committee headed byDean
Administrative	No	--	Yes	Chartered Accountant

6.8 Does the University/ Autonomous College declares 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?

- ♦ We have introduced instant supplementary examination for each regular semester.
- ♦ We have introduced improvement system for grade improvement of the students in each regular semester.

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

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6.11 Activities and support from the Alumni Association

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

6.12 Activities and support from the Parent – Teacher Association

Parent Teacher Association meeting is conducted periodically to know about the students' progress. The meeting is a platform to offer suggestions for further improvement and development of the students. The parents get an opportunity to interact with the faculty advisors and heads of the departments to know about their ward's performance and study

6.13 Development programmes for support staff

- ◆ Basic English Communication
- ◆ Computer Skills – Ms-word, Excel

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

- ◆ Energy conservation approaches
- ◆ Rain-water harvesting
- ◆ Waste-water recycling
- ◆ Prohibiting smoking and making a tobacco-free campus
- ◆ Tree plantation

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.

1. Skill development of students to empowers them by implements prior activities viz 1). Micro Projects for better understanding of concern 2. SPEED (Student platform) to inculcate participation in projects competition 3. EPICS (Engineering Projects in Community Services) to harness community awareness and promote grass roots innovation.
2. Mentor, Mentee system to provide counselling to students.
3. Development of students by collaborating with national and international organization for example, EPICS is being carried in collaboration with Purdue University.
4. Spatial skills enhancement under the guidance of Rowen University, USA
5. Remedial classes for weak and slow learners
6. Concept oriented tutorial to improve the performance of the students in GATE and other competitive examination.
7. Visit of experts' from industries and professional institutions.

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
To conduct IUCEE International Engineering Educator Certified Programme (IEECP)	Completed
To conduct workshop for faculty to introduce Active Learning in the Class room teaching	
To organize Research Methodology workshop with on aim to improve quality of research work	
Workshop on Impact of Teachers effectiveness on students achievement	
Workshop on A positive Attitude-Transforming an average to good and excellent teacher	
BEC training for English faculty of I-Year	

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

1. EPICS (Engineering Projects in Community Services) to harness community awareness among students and to promote grass root innovation.
2. Skill development of students to empower them by implementing a number of innovative achievements.

7.4 Contribution to environmental awareness / protection

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? Yes No

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

Institutional Strengths:

1. Autonomous status and NBA Accreditation for all departments.
2. 25 acres green lush campus with sufficient infrastructure facilities with WiFi providing conducive learning ambience.
3. Well equipped labs and Centres of Excellences (CoE) in each department catering the cutting edge technologies.
4. Implementation of quality improvement programme under IQAC.
5. Automation of Teaching-Learning process by the application of MIS.

Institutional Weakness:

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

8. Plans of institution for next year

1. Effective implementation of active learning strategies constituting five activities viz;
 - i) Flipped Class Rooms
 - ii) TAPPS
 - iii) In-Class Teams
 - iv) Group writing Assignment
 - v) Collaboration Learning
2. Focus on quality Research Publications in high impact and free journals
3. Upgradation of Syllabus to narrow the gap between academic and industry needs
4. Teacher training programme to improve teacher's effectiveness on student performance
5. Improvement in examination papers to assess analytic and problem solving capabilities of students

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Professor & Dean in CS

Name: **Dr.P. Bhaskara Reddy**
Professor & Principal

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC
