Submission of Annual Quality Assurance Report (AQAR) for the A.Y. 2017-2018

to

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission
P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

by

MCKV
Institute of Engineering

Estd. 1999

MCKV INSTITUTE OF ENGINEERING

(NAAC Accredited "A" Grade Institute)
(AICTE Approved & Affiliated to Maulana Abul Kalam Azad. University of Technology)
243, G.T. ROAD (NORTH), LILUAH, HOWRAH-711204

Contents

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

> MCKV INSTITUTE OF ENGINEERING

1.2 Address Line 1

> 243 G. T. Road (North)

Address Line 2

> Liluah

City/Town

> Howrah

State

> West Bengal

Pin Code

> 711204

Institution e-mail address

> mckvie@vsnl.net

Contact Nos.

> 033-26549315

Name of the Head of the Institution:

> Dr. Buddhadeb Chattopadhyay

Tel. No. with STD Code:

> 033-26549317

Mobile:

> 9830432192

Name of the IQAC Co-ordinator:

Dr. Ranjib Biswas

Mobile:

9830086991

IQAC e-mail address:

iqac.mckvie@gmail.com

1.3 **NAAC Track ID** (*For ex. MHCOGN 18879*)

WBCOG80851

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)

ES(SC)/28/A&A/177.1 Dated 30-10- 2017

1.5 Website address:

www.mckvie.edu.in

Web-link of the AQAR:

http://mckvie.edu.in/site/assets/files/1310/es_sc_28a_a
177_1_dated_30-10-_2017-
mckv_institute_of_engineering_liluah_howrah_west_b
engal.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	1st Cycle	A	3.02	2017	2022
2	2nd Cycle	--	--	--	--
3	3rd Cycle	--	--	--	--
4	4th Cycle	--	--	--	--

1.7 Date of Establishment of IQAC: DD/MM/YYYY

29/09/2016

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

2017-18 (July 2017 to June 2018)

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

NA

    i. 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 Yes ☑   No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

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) | Masters of Computer Applications (MCA) |

1.12 Name of the Affiliating University *(for the Colleges)* | Maulana Abul Kalam Azad University of Technology |

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

Autonomy by State/Central Govt. / University ☐

University with Potential for Excellence ☐   UGC-CPE ☐

DST Star Scheme		UGC-CE	

UGC-Special Assistance Programme		DST-FIST	

UGC-Innovative PG programmes		Any other (*Specify*)	

UGC-COP Programmes	

2. IQAC Composition and Activities

2.1 No. of Teachers — 14

2.2 No. of Administrative/Technical staff — 3

2.3 No. of students — 0

2.4 No. of Management representatives — 2

2.5 No. of Alumni — 1

2. 6 No. of any other stakeholder and

   community representatives — 2

2.7 No. of Employers/ Industrialists — 0

2.8 No. of other External Experts — 0

2.9 Total No. of members — 22

2.10 No. of IQAC meetings held — 4

2.11 No. of meetings with various stakeholders: No. — 11   Faculty — 10

   Non-Teaching Staff Students — 10   Alumni — 1   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. | 41 | International | | National | 14 | State | 2 | Institution Level | 25

(ii) Themes

- Opportunities for Higher Studies in Foreign Universities
- Workshop on Street Photography
- Interactive Session on Placement Preparation
- Fabric of Technology
- Arduino Micro Controller and IoT
- Cyber Security
- Cloud Computing
- Circuit Design using LT Spice
- Wireless Communication Technology
- Industrial Automation
- Behavioural Attitude of Budding Engineers
- Machine Learning with Python
- Machine Learning in Data Science
- Introduction to R Programming
- Awareness of Issues and Challenges of Entrepreneurship
- Advanced PL SQL

2.14 Significant Activities and contributions made by IQAC

- Conducted Seminar/ Workshops/ Training etc. to promote quality, research & development, encourage students to pursue higher education.
- Conducted academic audit by a team of external experts.
- Collected Feedback from various stake holders and analyzed.
- Adopted policies for CAS, Self Appraisal of employees.
- Framed policies to issue 'Certificate of Proficiency' for students
- Achieved NBA Accreditation for 2 Programmes.
- Introduced modified version of ERP systems.
- Conducted various awareness programmes and outreach activities addressing social issues.
- 360 degree Feedback systems for Director, Principal, Deans and HODs.
- Organized soft skills and personality development programmes for students.
- Organized Industry Visit and Lecture by eminent Industry Personnel through CII.
- Faculty members attended various FDPs/ Workshops/ Seminars/ Conferences etc.
- Good no. of students enrolled in NPTEL Certification Courses.
- Designed pro-forma for earning Credits under Mandatory Additional Requirement scheme.

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
Encouragement to the faculty members, employees and students for their achievement and performances by presenting them with awards, prizes and recognition certificates.	Institute has given awards to Faculty members for their academic and research related achievements. The students were given mementos, prizes and certificates for their academic as co curricular and extra curricular achievements and attendance in the class.
Encouragement to departments to conduct Seminar/ Workshops/ Training etc. both for students and staffs.	Conducted Seminar/ Workshops/ Training etc. to promote quality, research & development, encourage students to pursue higher education.
Collection of feedback from students on teachers' performance in the class.	Online feedback from students in each department at semester end are collected and analysed. Consolidated reports were sent to the departmental heads through Principal for further remedial actions, if any.
Collection of feedback from parents, employee and alumni	Feedbacks were collected on sample basis from different stakeholders through various programmes like Alumni Meet, Parent Teacher Meet etc. The consolidated reports were sent to the Management for further considerations.
Introduction of modified Self Appraisal Systems for staff members.	Staff members submitted Self Appraisal through HODs in the modified format.
Introduction of modified version of ERP systems.	Existing ERP system had been modified to promote paperless communication in the Institute.
Arrangement of various awareness programmes and outreach activities addressing social issues.	Many activities had been conducted through Rotaract Club and Swami Vivekananda Centre for Positive Thinking of the Institute.
Development Programmes	Faculty members attended various FDPs/ Workshops/ Seminars/ Conferences etc. Organized soft skills and personality development programmes for students.
Submission of application for NBA Accreditation	Achieved NBA Accreditation for 2 Programmes, namely B.Tech. in Mechanical and Electrical Engineering.
Arrangement of Industry Visit and Expert Lecture by eminent Academician and Industry Personnel.	Good no. of Industry Visit and Expert Lecture by eminent Academician and Industry Personnel had been conducted by various departments.
Adoptation of earning Credits under Mandatory Additional Requirement scheme.	Designed and implemented pro-forma for earning Credits under Mandatory Additional Requirement scheme.
Encouragement to students to enroll in online/ MOOC courses	Good no. of students enrolled in NPTEL Certification Courses.
Introduction of 'Certificate of Proficiency' indicating the attainment of Graduate Attributes of each student.	Framed policies and designed proforma to issue 'Certificate of Proficiency' for students.

Attach the Academic Calendar of the year as Annexure. **(ANNEXURE-I)**

2.15 Whether the AQAR was placed in statutory body   Yes ☑   No ☐

Management ☑   Syndicate ☐   Any other body ☐

Provide the details of the action taken

The draft of Annual Quality Assurance Report (AQAR) of 2017-18 was placed to the 59th meeting on Governing Body of 29th September, 2018. After due consideration, the Governing Body approved the AQAR and recommended the same to upload on the college Website and subsequently to submit it to NAAC.

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	2	--	--	--
UG	6	--	--	--
PG Diploma	--	--	--	--
Advanced Diploma	--	--	--	--
Diploma	--	--	--	--
Certificate	--	--	--	--
Others	--	--	--	--
Total	8	--	--	--
Interdisciplinary	--	--	--	--
Innovative	--	--	--	--

1.2 (i) Flexibility of the Curriculum: ~~CBCS~~/ **Core/ Elective option/ Open options**
     (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	8
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 (ANNEXURE-II)

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

Being an affiliated college, there is no provision to revise/ update syllabi. Institute follows University curriculum.

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

No

Criterion-II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Department	Total	Asst. Professors	Associate Professors	Professors	Others
AUE	10	8	2	0	0
CSE	13	11	1	1	0
ECE	15	11	3	1	0
EE	10	9	0	1	0
IT	12	10	2	0	0
MCA	8	8	0	0	0
ME	9	7	2	0	0
BSHSS	19	15	1	3	0
Total	**96**	**79**	**11**	**6**	**0**

2.2 No. of permanent faculty with Ph.D.

Department	Number of Faculty	Department	Number of Faculty
AUE	2	IT	3
CSE	2	MCA	0
ECE	5	ME	4
EE	3	BSHSS	7

Total : **26**

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Department	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
AUE	0	0	0	0	0	1	0	0	0	0
CSE	0	0	0	1	0	0	0	0	0	1
ECE	0	0	0	0	0	2	0	0	0	2
EE	0	0	0	2	0	0	0	0	0	2
IT	2	0	0	0	0	1	0	0	0	0
MCA	0	0	0	0	0	0	0	0	0	0
ME	0	0	0	0	0	0	0	0	0	0
BSHSS	0	0	0	0	0	0	0	0	0	0
Total	**2**	**0**	**0**	**3**	**0**	**4**	**0**	**0**	**0**	**5**

2.4 No. of Guest and Visiting faculty and Temporary faculty

Department	Guest faculty	Visiting faculty	Temporary faculty
AUE	0	0	0
CSE	0	0	0
ECE	0	0	0
EE	0	0	2
IT	0	0	0
MCA	0	0	0
ME	2	0	3
BSHSS	0	1	0
Total	**2**	**1**	**5**

2.5 Faculty participation in conferences and symposia:

Department	No. of Faculty	International level	National level	State level
AUE	Attended Seminars/ Workshops	1	0	0
	Presented Papers	1	0	0
	Resource Persons	0	0	0
CSE	Attended	2	1	0
	Presented papers	1	1	0
	Resource Persons	0	0	0
ECE	Attended	0	0	0
	Presented papers	0	0	0
	Resource Persons	0	0	0
EE	Attended	5	0	0
	Presented papers	7	0	0
	Resource Persons	0	4	0
IT	Attended	3	0	0
	Presented papers	2	0	0
	Resource Persons	1	0	0
MCA	Attended	1	0	0
	Presented papers	1	0	0
	Resource Persons	0	0	0
ME	Attended	3	0	0
	Presented papers	3	0	0
	Resource Persons	0	2	1
BSHSS	Attended	2	0	0
	Presented papers	2	0	0
	Resource Persons	0	0	0
Total		**35**	**8**	**1**

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

- Blended learning through NPTEL resources, E-library and E-journals.
- Audio Visual Aids in classrooms.
- Guest lectures, Seminars & work shop
- Industrial visits & In-plant training
- Value added courses
- Promotion of credit based co-curricular and extra-curricular activities.
- Departmental academic committee and mentorships for academic mentoring.
- Career counselling and student counselling
- Academic Audit (Internal/External) for continuous improvement.
- Diagnostic test for first year students and subsequent remedial classes for weak students.
- Academic performance monitoring through appraisal.
- Internship during the semester breaks are encouraged.
- Industrial/site visit are organised by the Institute along with CII.
- Classroom lectures are supplemented by talks by eminent academician and industry personnel.
- 24X7 WiFi enabled campus promotes technological upgradation.
- Continuous evaluation through projects, assignments, tests.

2.7 Total No. of actual teaching days during this academic year | 191 |

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

Institute conducts examinations as per regulations of Maulana Abul Kalam Azad University of Technology (MAKAUT). Apart from this the Institute also conducts the following:
- Online Diagnostic test for the first year students to identify the pre requisite knowledge gap followed by arrangement of remedial classes for slow learners.
- Continuous evaluation is carried out throughout the semester through regular tests, objective tests, presentations, quizzes etc.
- Continuous evaluation process for all sessional and Laboratory Classes.
- Introduced evaluation of students performance through Active Learning methodologies.
- Paper presentations and seminars are also encouraged.

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

Department	Board of Study	Faculty	Curriculum Development workshop
AUE	1	0	0
CSE	1	0	0
ECE	0	0	0
EE	0	0	0
IT	0	0	0
MCA	0	0	0
ME	2	0	0
BSHSS	2	0	0
Total	**4**	**0**	**0**

2.10 Average percentage of attendance of students

Department	Attendance (%)
AUE	75
CSE	75
ECE	69
EE	75
IT	75
MCA	75
ME	75
BSHSS	78
Average	**75**

2.11 Course/ Programme wise distribution of pass percentage:

Title of the Programme	Number of students appeared	Division				
		Distinction%	I%	II%	III%	Pass%
CSE-UG	74	NA	NA	NA	NA	91.89%
IT-UG	53	NA	NA	NA	NA	100%
ECE-UG	70	NA	NA	NA	NA	94.29%
AUE-UG	63	NA	NA	NA	NA	100%
ME-UG	76	NA	NA	NA	NA	98.68%
EE-UG	66	NA	NA	NA	NA	93.94%
MCA	21	NA	NA	NA	NA	100%
CSE-PG	05	NA	NA	NA	NA	100%
ECE-COMM-PG	06	NA	NA	NA	NA	83.33%
ECE-VLSI-PG	03	NA	NA	NA	NA	100%
AUE-PG	05	NA	NA	NA	NA	100%

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

- The day to day teaching learning- activities of different departments are monitored by the HODs, Deans, Principal and Director. The shortcomings/ difficulties, if any, are addressed suitably to improve the process,
- The performance of students in class tests are evaluated by concerned faculty member and weaker students are encouraged to attend remedial/extra classes to bridge the gap, if any under the supervision of the HOD.
- IQAC takes initiative to implement active learning methodologies and adopted by the faculty members to make the teaching-learning process more effective.
- Develops questionnaire for collecting the feedback from student and other stakeholders.
- Collects self appraisals from faculty and staffs.
- Conducts the quality audit once in every six months in all academic and administrative departments. The external audit is done every year by the professional quality auditors.
- Analyzes semester examination results for further improvement.

- The feedback and the suggestions of all stake holders are given due importance and placed in management meeting for proper approval.
- Promotes ICT based teaching learning.
- Sets guidelines for student psychological counseling.
- Encourages enrollment of students in NPTEL and other MOOC courses.
- Conducts several Faculty Development Programs.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted								
	AUE	CSE	ECE	EE	IT	MCA	ME	B.Sc	HSS
Refresher courses	0	0	0	0	0	0	0	0	0
UGC – Faculty Improvement Programme	0	0	0	0	0	0	0	0	0
HRD programmes	0	0	1	0	0	0	2	0	0
Orientation programmes	2	0	0	0	0	0	0	0	0
Faculty exchange programme	0	0	0	0	0	0	0	0	0
Staff training conducted by the university	0	0	4	0	1	0	0	0	0
Staff training conducted by other institutions	1	1	2	0	2	0	1	0	1
Summer/ Winter schools, Workshops, etc.	1	1	2	0	12	0	0	0	0
Others	0	4	0	0	0	0	0	0	0
Total	**4**	**6**	**9**	**0**	**15**	**0**	**3**	**0**	**1**

2.14 Details of Administrative and Technical staff

Department	Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
AUE	Administrative Staff	0	0	0	0
	Support staff:	7	0	0	0
	Work shop Assistant	5	0	0	0
CSE	Administrative Staff	0	0	0	0
	Technical Staff	7	0	0	0
ECE	Administrative Staff	1	0	0	0
	Technical Staff	12	0	0	0
EE	Administrative Staff	0	0	0	0
	Technical Staff	5	0	0	0

Department	Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
IT	Administrative Staff	0	0	0	0
	Technical Staff	5	0	0	0
MCA	Administrative Staff	0	0	0	0
	Technical Staff	2	0	0	0
ME	Administrative Staff	0	0	0	0
	Technical Staff	6	0	0	0
BSHSS	Administrative Staff	0	0	0	0
	Technical Staff	3	0	1	0
HR Section	Administrative Staff	45	5	1	0
	Technical Staff	51	4	1	0

Criterion-III

3. Research, Consultancy and Extension

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

Research and teaching has synergistic effect on the academic activity of the Engineering education. The research activity of MCKV Institute of Engineering was started its journey from its inception in the year 1999 by high caliber staff along with high achieving students. As a mark of honour Institute got Research Grant from Department of Science and Technology, Govt. of India in 2002 and 2014. Two research scholars have already obtained Ph.D. from Jadavpur University after successful completion of their research work in this institute. Recent days around fifteen (15) research scholars are doing research work in different Departments of the Institute. The research activity of our Institute in a joint collaboration with *Indian Institute of Engineering Science and Technology (IIEST), Shibpur has got Research Grant from* Department of Science and Technology, Govt. of India in 2016. The Institute is involved in the collaborative research with the premier Institute like IIT Kharagpur, SINP Kolkata, Calcutta University and Jadavpur University. The research activity of the faculty and students are published in reputed high impact Journals with high citation Index which proves the quality of research in this Institute with respect to global scale. To motivate the research activity the institute felicitate the faculty members through CHAIRMAN's REWARD. Institute also sanctioned study leave for research activity of the staff members of the institute. The innovative project developed by our UG students, participated in different national level competition organized by top academia or corporate leaders, where they not only got awards and but also attract the peers. Recently institute has taken initiative to strengthen the collaborative research with industry through visit the neighbouring industry and try to understand the problem of the industry regarding process/product development.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	2	--	--
Outlay in Rs. Lakhs	56.694	15.74	--	--

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02	--	--	--
Outlay in Rs. Lakhs	1,24,000	--	--	--

3.4 Details on research publications

	International	National	Others
Peer Review Journals	27	--	--
Non-Peer Review Journals	6	--	--
e-Journals	0	--	--
Conference proceedings	27	4	--

3.5 Details on Impact factor of publications:

Range | 0.5-5.715 | Average | 3.3 | h-index | 13 | Nos. in SCOPUS | 2

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 (Rs.)	Received (Rs.)
Major projects	09/04/2014 to 09/04/2017	DST, SERB, New Delhi	56,69,400	56,69,400
	2016- 2019	SERB	21,61,170	13,76,000
	2016-17	**ISHRAE, Kolkata Chapter**	1,24,000	1,24,000
Minor Projects	--	--	--	--
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Projects sponsored by the University/ College	--	--	--	--
Students research projects *(other than compulsory by the University)*	--	--	--	--
Any other(Specify)	--	--	--	--
Design and manufacturing of Off-road Vehicle (BAJA SAE)	2017-18	MCKVIE	55,750	55,750
Design and manufacturing of formula one car (SUPRA-SAE)	2017-18	MCKVIE	55,125	55,125
Total			80,65,445	72,80,275

3.7 No. of books published   i) With ISBN No. | 3 | Chapters in Edited Books | 4 |

   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 (specify) | -- |

3.10 Revenue generated through consultancy

Rs. 42000/-

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	2	--	--	--	--
Sponsoring agencies		--	--	--	--

3.12 No. of faculty served as experts, chairpersons or resource persons   6

3.13 No. of collaborations   International   7   National   8   Any other   --

3.14 No. of linkages created during this year   2

3.15 Total budget for research for current year in lakhs:

From Funding agency   --   From Management of University/College   Rs. 3 Lakh

Total   Rs. 3 Lakh

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	--
	Granted	--
International	Applied	--
	Granted	--
Commercialised	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
18	12	4	--	1	--	1

3.18 No. of faculty from the Institution who are Ph. D. Guides   9
and students registered under them   15

3.19 No. of Ph.D. awarded by faculty from the Institution   2

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

JRF   1   SRF   1   Project Fellows   0   Any other   1

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

3.23 No. of Awards won in NSS:

University level	--	State level	--
National level	--	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	--	College forum	2		
NCC	--	NSS	14	Any other	1

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

- Organized Blood Donation Camp and other outreach activities by NSS Unit and Rotaract Club of the Institute.
- Visited oldage home and orphanage to distribute clothing and other necessary items.
- Organized several awareness programmes like World Yoga Day, World Photography Day, ASCENDIO (an entrepreneurship awareness programme for women), 'SAFE DRIVE & SAVE LIFE' (an awareness programme on road safety), PARISHKARA (Based on Swachh Bharat Abhiyan, Anger & Stress Management etc.
- Conducted awareness programme on Entrepreneurship and Cyber security.
- Organized workshops on Value Education & Positive Thinking by Swami Vivekananda Centre for Positive Thinking.
- General awareness program of higher education to 10+2 students.
- Institute offers full and half freeship in tuition fees to support students from economically weaker section of the society.
- Provides transportation and free lunch facility to all staff members.

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	22375Sq.M	--	--	22375Sq.M
Class rooms	51	--	--	51
Laboratories	47	--	-	47
Seminar Halls	7	--	-	7
No. of important equipments purchased (1-0 lakh) during the current year.	--	6 Nos	Tuition fee	--
Value of the equipment purchased during the year (Rs. in Lakhs)	--	28.95Lakhs		--
Others	--	--	--	--

4.2 Computerization of administration and library

> All the activities of administrative departments are fully computerized and these are interconnected through ERP software. The library functioning is done through LIBSYS software.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value (Rs.)	No.	Value (Rs.)	No.	Value (Rs.)
Text Books	33521	8045224	159	30457	33680	8075681
Reference Books	4892	1174107	58	11078	4950	1185185
e-Books	1070	1876767	-	-	1070	1876767
Journals	85	77007	-	-	85	77007
e-Journals	198	393297	452	207750	452	207750
Digital Database	-	-	1	19470	1	19470
CD & Video	-	-	-	-	-	-
Others (specify)	-	-	-	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	693	10	16mbps (Vodafone) 8mbps & 4mbps (Reliance)	1	1	11	8	-
Added	-	-	Speed enhancement of BSNL line to 30mbps and 20mbps	-	-	-	-	-
Total	693	10	-	1	1	11	8	-

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

- Access to internet and computer facilities to teachers and students of the Institute.
- Access to internet in all the students' hostels, Library Reading rooms.
- Wi-fi enabled campus.
- Introduction of online attendance monitoring system for faculty members and students.
- Implementation of online feedback for different stakeholders.
- LIBSYS for library management.
- Introduced online complaint redraessal system where the stakeholders can submit their complain online through institute website.

4.6 Amount spent on maintenance in lakhs :

i) ICT | 1.5Lakh

ii) Campus Infrastructure and facilities | 36.9Lakh

iii) Equipments | 4.34Lakh

iv) Others | 6.82Lakh

Total : | 49.56Lakh

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- IQAC conducted one day Orientation programme at the beginning of the academic year for the newly admitted students to make them aware of the student support programmes.
- IQAC updates notice boards and college website regularly to ensure active participation by students in various activities.
- IQAC implemented Student Support Services in the Institute through the Dean of Students affair. Introduction of student centric welfare schemes, addressing various requirements of students and providing necessary support system for student related issues are managed by the Dean of Students affair in consultation with other Deans of the Institute, wardens of the Hostels and Student representatives.

5.2 Efforts made by the institution for tracking the progression

- Students' progress was tracked both academically and in extracurricular activities.
- Academically, the students were traced by the internal assessment, analysis of results, remedial coaching, extra lectures for better understanding, mentoring, parent-teacher meeting, etc.
- Percentage of attendance of students are calculated and the names of those who have less than 75% are displayed on all notice boards and the parents of these students are also informed by sending letter.
- In the area of sports, internal games were conducted to select the students for representing the college, university, state and country.
- The Institutional cultural fest "UTOPIA" & technical fest "PRAGATI" were conducted with the aim of providing a platform to the students to showcase their inherent talents

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1462	58	0	0

(b) No. of students outside the state

234

(c) No. of international students

0

Men

No	%
1168	76.84

Women

No	%
352	23.16

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1319	41	04	280	0	1644	1301	33	04	182	0	1520

Demand ratio: <u>77%</u>   Dropout <u>2.23%</u>

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

- The main focus is on campus placements. The institution has exclusive Training and placement cell and all eligible and enrolled students for such placements are trained by External experts to face the interviews confidently.
- Organised coaching classes for GATE aspirants.

No. of students beneficiaries | All |

5.5 No. of students qualified in these examinations

NET	0	SET/SLET	0	GATE	17	CAT	2
IAS/IPS etc	0	State PSC	0	UPSC	0	Others	2

5.6 Details of student counselling and career guidance

- MCKVIE has an in-house qualified student counsellor who counsels the students on various aspects like, anxiety, confusion, anger management and depression
- The Institute also has a very active placement cell which organizes sessions on career guidance as well as helps in the on campus placement.
- Students mentorship.
- Provision of faculty coordinator for each class.
- Orientation programme for 1st year students.
- Diagnostic Test for 1st year students.
- Soft skill training for all students.
- Promotion of entrepreneurship & skill development in collaboration with NEN.

No. of students benefitted | All |

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
48	344	94	35

5.8 Details of gender sensitization programmes

- Under the guidance of the Institute, various programmes are conducted with gender sensitization in mind. While moulding the student community to respect women, an attempt is made to foster mutual respect and a healthy environment for peaceful coexistence of both boys and girls.
- An awareness program for sanitary napkin vending machine has been conducted for a week for the girl students of different departments

5.9 Students Activities

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

              State/ University level   35   National level   0   International level   0

              No. of students participated in cultural events

              State/ University level   0   National level   0   International level   0

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

    Sports: State/ University level   06   National level   0   International level   0

    Cultural: State/ University level   0   National level   0   International level   1

5.10 Scholarships and Financial Support

	Number of students	Amount (Rs.)
Financial support from institution	0	0
Financial support from government	11	660000
Financial support from other sources	0	0
Number of students who received International/ National recognitions	58	116000

5.11   Student organised / initiatives

Fairs   : State/ University level   0   National level   1   International level   0

Exhibition: State/ University level   0   National level   0   International level   0

5.12 No. of social initiatives undertaken by the students   25

5.13 Major grievances of students (if any) redressed: **<u>NIL</u>**

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision:
To be a sustainable centre of academic excellence and advanced research at national level producing students recognized for their academic competence, attitudes and dedication.

Mission
- To create a vibrant learning environment in the campus
- To develop and enhance teaching-learning quality
- To have highly qualified faculty
- To support application oriented research and encourage entrepreneurship.

6.2 Does the Institution has a management Information System

Management Information System of MCKVIE has two web-based system namely pragrati.mckvie.org and mckvie.edu.in. The first one provides (a) Student Database Management (b)Students results (c) Placement Data , (d) Bulk SM service for communication etc. whereas the second one is our institutional website which provides service rules, yearly planner, academic calendar, holiday list, faculty and staff information, news and events and any information needed to be communicated to our stakeholders.

6.3.1 Curriculum Development

In this academic year model curriculum formed by AICTE has been implemented by our college. The curriculum is set up according to current needs and trends in the industry. It has been cordially welcome and accepted from this semester.

6.3.2 Teaching and Learning

A) In the academic year 2017-18, the institute introduces a new student centric ERP system called SARTHAK for the better implementation of outcome based education system (OBE). The salient features of this ERP system are as follows:

a) Faculty members can provide online attendance of students.
b) Students can submit online feedback to the teacher.
c) The department can also take course end survey and programme exit survey.

B) The institute has also introduced online complaint redressal system where the stakeholders can submit their complain online through institute website.

6.3.3 Examination and Evaluation

For the smooth functioning of the teaching-learning process, our Institute has decided to maintain model answer scripts of previous year MAKAUT examination s prepared by experts in the library so that students can prepare themselves very easily.

In this academic year, Mandatory Additional Requirement is made compulsory for all B. Tech students. These parameters will not add any extra credit but a student has to fulfill all Mandatory Additional Requirement criteria in order to gain B. Tech degree.

6.3.4 Research and Development

Details given in sub criterion 3.1

6.3.5 Library, ICT and physical infrastructure / instrumentation

In this academic year, our library is enriched with 159 text books, 58 reference books and 58 printed journals and magazines. Subscription of Springer Nature 3 subject collection comprises of 453 titles covering engineering, computer science, mathematics and statistics and subscription of Developing Library network (DELNET) database have been started during this period. Emphasis has also been given to develop employment and competitive exam section in the library.

In addition, library networking has also been successfully completed (LAN modified from server base to IP base). Additional CCTV cameras are also installed to cover the entire library premises.

6.3.6 Human Resource Management

To facilitate human resource in our college for this academic year, The Institute has organized various programmes, such as;

1) ASCENDIO (an entrepreneurship awareness programme for women). The programme would hopefully contribute to women empowerment.

2) To impart values among students the Institute has conducted Value Education and Positive Thinking workshop on 20.8.17.

3) An awareness programme was organised on the National Pollution Control Day and famous environmental activist Mr. Subhas Dutta was invited to address the audience. All the students and staff members were invited to make the event successful.

4) A workshop on Anger Management has been organized by our college on 26th August 2017. The programme was mandatory for all staff members including support staff.

All these programmes would help us to develop human resource in the Institute.

6.3.7   Faculty and Staff recruitment

On 30th May 2018, to fill up the vacancies, an advertisement has been published in two popular English daily namely The Times of India and Ei Samay for requirement in different posts like Professor, Associate Prof. , Asst. Prof., Registrar etc. Hopefully all the vacancies will be filled up according to AICTE norms by the end of this academic year.

6.3.8   Industry Interaction / Collaboration

To facilitate students' learning, our Institute has encouraged student-industry interaction vigorously. Renowned training consultancy SHIVAM has already trained our students. AMCAT has conducted online exam under the supervision of our college. The Institute has also collaborated with BOSCH for training and placement. Hopefully these students -industry interface will help our students both academically and professionally.

6.3.9   Admission of Students

For the academic year 2017-18, three hundred and fifty eight (358) students have enrolled in B. Tech, M. Tech, and MCA courses. The number also includes lateral students of this academic session. Admission process is going on for 2018-19 session.

6.4   Welfare schemes for

No new welfare schemes have been introduced in this academic year. Facilities of the previous years are cordially resumed in this semester for students, teaching and non- teaching staffs

6.5   Total corpus fund generated:

Rs. 17,86,162/- (for the academic year 2017-18)

6.6   Whether annual financial audit has been done

Yes.   The financial audit is going on for the academic year 2017-18. The previous year financial audit has been successfully completed (2016-17).

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

Yes, Academic and administrative audit has been done by our ISO trained Internal faculty members on various parameters. Then the entire process has been reviewed by an external authority named Intertek. Suggestions for improvement have been provided. Last year they certified our Institute till 29th April 2020.

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

For UG Programmes   No   No

For PG Programmes   No   No

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

Not Applicable to our Institute

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

University promoted autonomy by forwarding the application to UGC with their recommendation. It also encourages and guides the Institute through their nominee in Governing Body.

6.11 Activities and support from the Alumni Association

MCKVIE has got a registered Alumni Society (S/2160214) since 2016. Every department invites Alumni to interact with the existing students and expose them in latest technology and industry trends. Further, many of them assist our placement and training cell to connect various industry for creating job opportunity and also internship possibilities.

6.12 Activities and support from the Parent – Teacher Association

We do not have any parent teacher association. However, Institute conducts regular parents-teacher meeting to obtain their feedback for the development of the Institute

6.13 Development programmes for support staff

A workshop on Anger Management has been conducted by our college on 26th August 2017. The programme was mandatory for all staff members including support staff. So all the support staff attended and benefitted from the same.

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

To make the campus eco-friendly our Institute has taken the following initiatives;

1) Awareness programme conducted by our college:
   An awareness programme was carried out on the National Pollution Control Day and famous environmental activist Mr. Subhas Dutta was invited to address the audience. All the students and staff members were invited to make the event successful.
2) Faculty members are also sent to participate in CII Industry Conclave on 8th Nov 2017 at ITC Hotel Kolkata. Dr. Amit Phadikar, Associate Prof. of IT Department and Mr. Rajat Subhra Bhowmik Asst. Prof. of ME Department attended this Conclave.
3) Further, a Green Audit Report has been submitted by experts after reviewing college campus. The report is satisfactory as per existing environmental rules of Govt. of India and Govt. of West Bengal.

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.

A) In the academic year 2017-18, the institute introduces a new student centric ERP system called SARTHAK for the better implementation of outcome based education system (OBE). The salient features of this ERP system are as follows:

a) Faculty members can provide online students attendance. The system will send automatic SMS to the guardian for three consecutive absence of the student.
b) Students can submit online feedback to the teacher. The system considers the feedback of the student whose attendance is above 75%.
c) The department can also take course end survey and programme exit survey.

B) The institute also introduced online complaint redraessal system where the stakeholders can submit their complain/ grievance online through institute website.

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

Sl No.	Action	Action Taken
1	Use of ICT based Teaching Learning Process.	Most of the faculty members adopted ICT based teaching learning process.
2	Conduction of Diagnostic Test of Students at the entry point.	Conducted for 1st year students
3	Introduction of more LED lamps in the campus.	Implemented
4	Introduction of Star Rated electrical appliance to minimize the energy consumption and maintain and carbon neutrality of the environment.	Implemented
5	Routine and safety use of disinfectant in the food court of the campus.	Implemented
6	Conduct of various awareness programme	Various awareness programmes like ASCENDIO (an entrepreneurship awareness programme for women) on 14th Feb, 2017, 'SAFE DRIVE & SAVE LIFE' (an awareness programme on road safety) on 21st Mar, 2018, PARISHKARA (Based on *Swachh Bharat Abhiyan)* on 18th Sept, 2017 etc.* are arranged.

Sl No.	Action	Action Taken
7	Organization of gender equality promotion programme	Following programmes are arranged: (1) "Value Education & Positive Thinking" on 20/08/2017. This is a one day motivational workshop for interested participants (both male and female) for sharing knowledge on life of Swami Vivekanada. (2) "Awareness Program on Entrepreneurship", on 18/08/2017, This one day programme was conducted for interested students (both boys and girls) to develop awareness regarding importance of entrepreneurship education in Technical Institutions. (3) "Orientation Program on Entrepreneurship "on Sept-Dec, 2017. This programme was conducted for interested students (both boys and girls) throughout the semester in collaboration with National Entrepreneurship Network (NEN).

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

Best Practice I: ICT based Teaching Learning Process.	ANNEXURE-III
Best Practice II: Diagnostic Test of Students at the entry point.	ANNEXURE-IV

7.4 Contribution to environmental awareness / protection

1) The institute celebrates "National Pollution Control Day" on 1st December 2017. Mr. Subhas Dutta, eminent environment activist was addressing the audience. Around ninety faculty, staff members and students attended the programme.

2) The institute celebrates "SAFE DRIVE AND SAVE LIFE" awareness programme on road safety on 21st March, 2018. Free helmates were distributed in the event.

3) The institute celebrated PARISHKARA (Based on *Swachh Bharat Abhiyan)* on 18th September, 2017. *It is a beautification drive in and around the MCKVIE campus. The teachers and students help clean the Liluah station keeping in mind the hygienic issues of the places.*

7.5 Whether environmental audit was conducted?   Yes √   No ☐

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

- NBA visit of Electrical Engineering and Mechanical Engineering departments were completed during 27-29 April 2018 and awarded provisional accreditation to both the departments for 3years.

- **SWOT ANALYSIS OF THE INSTITUTE**

Strengths:
1. 2 UG, CSE & ECE programmes are presently accredited. Other UG Programmes are under process of Accreditation.
2. The Institute possesses an effective and efficient mix of young, dynamic, versatile experienced faculty members with outstanding records of teaching and research acumen.
3. 25% of faculty members having Ph.D. degree while others are M.Tech.
4. Constant encouragement provided to the faculty for Research work leading to Ph. D.
5. Well maintained state-of-the-art infrastructure and laboratory.
6. Eco-friendly and amicable working atmosphere.
7. Diagnostic Test conducted to identify the gap of knowledge among the first year students.
8. To enhance domain knowledge ICT enabled Teaching learning methodology practiced through NPTEL, QEEE, etc.
9. Encouragement provided to the students for nurturing their innovative ideas and converts it to usable products through Innovation Cell.
10. Skill development training is provided to the students to flourish their latent Entrepreneurship qualities.
11. Conduct students' interaction with Industry through CII by in-house programmes and visit to Industry.

Weakness:
1. Faculty with industry experience are lacking
2. Newly admitted students from various vernacular and ethnic backgrounds carrying the heterogeneous students groups, which creates problem to bring them at par.
3. Collaborative R & D and Consultancy work in adequate.

Opportunities:
1. CII (ER) linkages to conduct more interaction programmes with the Industry.
2. Motivate faculty members to submit more R&D proposals to various funding agencies to increase external revenue.
3. Prepare students for GATE and other competitive examination for obtaining more Govt. jobs and avail opportunity for higher studies.
4. Authorized TOEFL centre in campus provides easy access to the students to assess their competency in English.

Threats:
1. Continuous up gradation of programme delivery content to keep pace with the fast changing Industry is a strong challenge.
2. Upgrading Faculty competence to match rapid growth and technology advances.
3. Overall recession in the national/ international market bleaks the placement scenario.
4. To motivate students in Entrepreneurship development.

MCKV INSTITUTE OF ENGINEERING

ACADEMIC CALENDAR FOR

ODD SEMESTERS (1ST, 3RD, 5TH, 7TH) CLASSES, 2017

1.	Academic Programme Commences	-	20th July, 2017 (3rd & 5th Sem) 26th July (7th Sem)
2.	Orientation Programme for 1st Sem	-	29th July, 2017
3.	Classes Commences for 1st Sem	-	1st August, 2017
4.	Diagnostic Test for 1st Sem	-	5th August, 2017
5.	Slot for 1st Class Test	-	28th to 31st August, 2017
6.	Slot for 2nd Class Test	-	1st-3rd November, 2017
7.	Slot for Remedial Class Test	-	13th-16th November, 2017
8.	(a) Practical Examinations & Viva-Voce	-	21st-30th November, 2017
	(b) Theory Examinations	-	5th-22nd December, 2017
9.	Winter Recess (as per MAKAUT decision)	-	25^{th}December'17-1st January'18
10.	Publication of University Results	-	Results will be announced in the University website in February'18

Prof. (Dr.) Asok Kumar
Principal

9/8/17

MCKV INSTITUTE OF ENGINEERING

243, G.T. Road (N), Liluah, Howrah – 711 204

ACADEMIC CALENDAR

EVEN SEMESTERS (2ND, 4TH, 6TH, 8TH) CLASSES, 2018

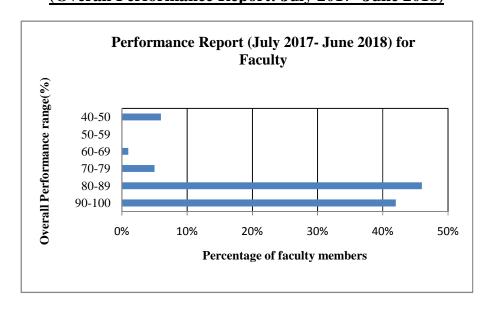|		
1.	Academic Programme Commences	January 15, 2018
2.	Slot for 1st Class Test	- 23rd, 26th, 27th February, 2018
3.	Slot for 2nd Class Test	- 4th, 5th, 6th April, 2018
4.	(a) Practical Examinations & Viva-Voce	- May 9 to May 16, 2018
	(b) Theory Examinations	- May 22 to June 9, 2018
5.	Summer Recess (as per MAKAUT decision)	- June 12 to July 12, 2018
6.	Publication of University Results	- Results will be announced in the University website in July 2018

During Inter-Semester-Break (Summer), Practical Training (*where applicable*) may be conducted.
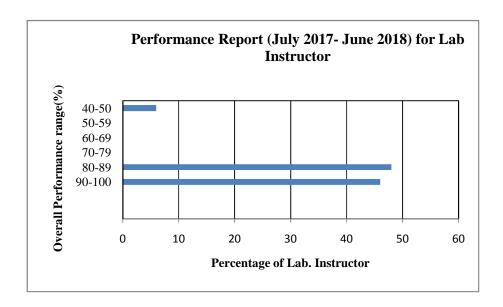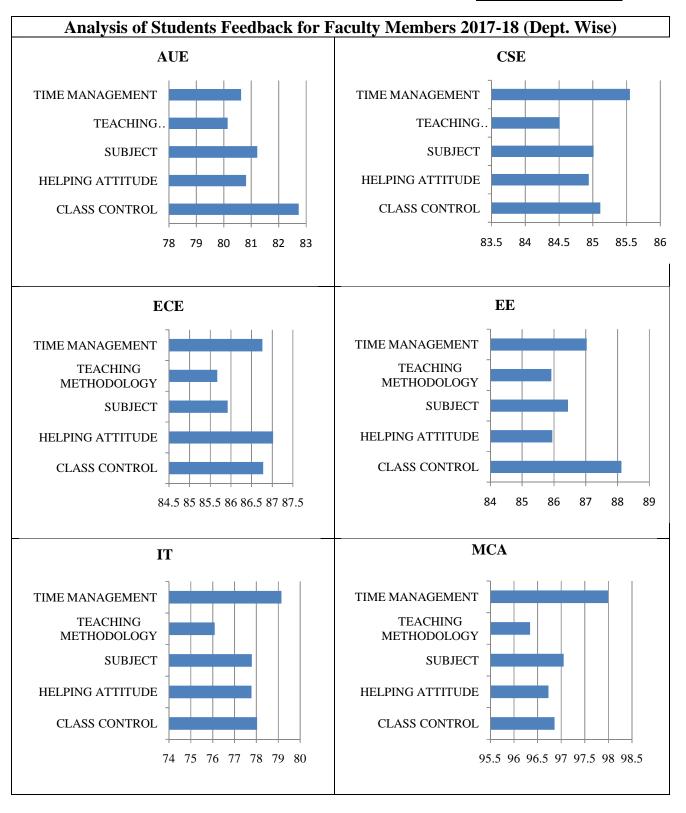
Principal

Student Feedback
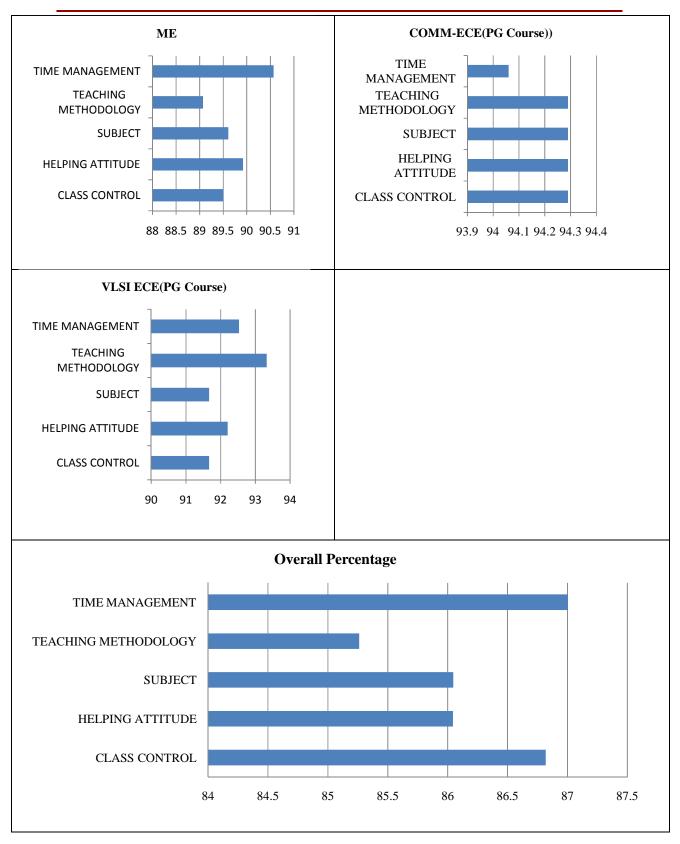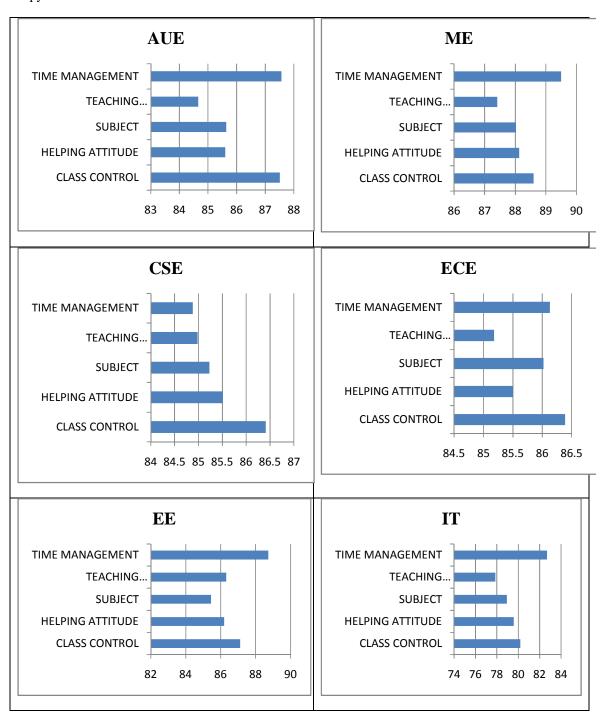
(Overall Performance Report: July 2017- June 2018)

Performance Report (July 2017- June 2018) for Faculty

Performance Report (July 2017- June 2018) for Lab Instructor

Analysis of Students Feedback for Faculty Members 2017-18 (Dept. Wise)

AUE

CSE

ECE

EE

IT

MCA

ME

COMM-ECE(PG Course))

VLSI ECE(PG Course)

Overall Percentage

All the data of the analysis are given by the percentage (%).

MCKV Institute of Engineering
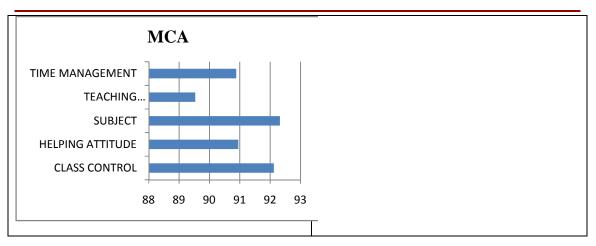
ANNEXURE-II (Contd.)

Analysis of Students Feedback for Laboratory Instructor 2017-18 (Department wise)

Whenever a course is offered by the department, the students would be required to give the feedback. All the data of the analysis is given by the percentage (%).Feedback format is attached with scanned copy.
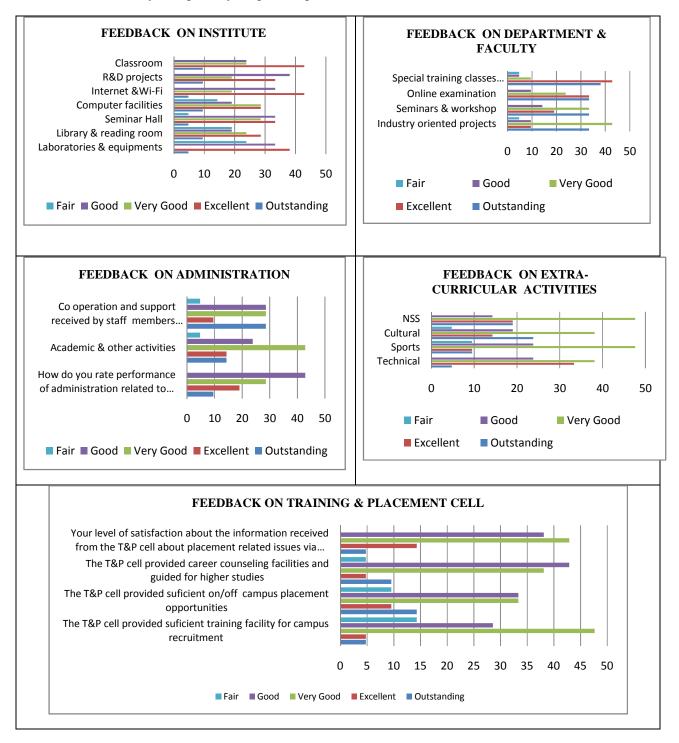
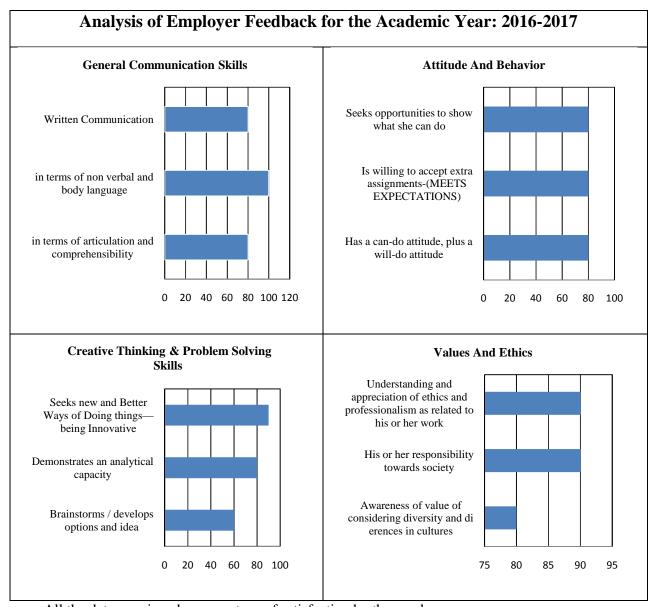

Annual Quality Assurance Report (AQAR) for the A.Y. 2017-2018   **Page | 36**

MCA

Chart categories (top to bottom): TIME MANAGEMENT, TEACHING..., SUBJECT, HELPING ATTITUDE, CLASS CONTROL

X-axis: 88, 89, 90, 91, 92, 93

ALUMNI FEEDBACK ANALYSIS(2017-18)

All the data of the analysis is given by the percentage (%).

FEEDBACK ON INSTITUTE

FEEDBACK ON DEPARTMENT & FACULTY

FEEDBACK ON ADMINISTRATION

FEEDBACK ON EXTRA-CURRICULAR ACTIVITIES

FEEDBACK ON TRAINING & PLACEMENT CELL

Analysis of Employer Feedback for the Academic Year: 2016-2017

General Communication Skills

- Written Communication
- in terms of non verbal and body language
- in terms of articulation and comprehensibility

(scale: 0 20 40 60 80 100 120)

Attitude And Behavior

- Seeks opportunities to show what she can do
- Is willing to accept extra assignments-(MEETS EXPECTATIONS)
- Has a can-do attitude, plus a will-do attitude

(scale: 0 20 40 60 80 100)

Creative Thinking & Problem Solving Skills

- Seeks new and Better Ways of Doing things—being Innovative
- Demonstrates an analytical capacity
- Brainstorms / develops options and idea

(scale: 0 20 40 60 80 100)

Values And Ethics

- Understanding and appreciation of ethics and professionalism as related to his or her work
- His or her responsibility towards society
- Awareness of value of considering diversity and di erences in cultures
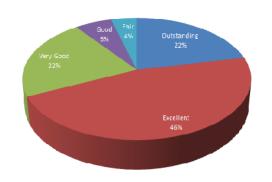
(scale: 75 80 85 90 95)

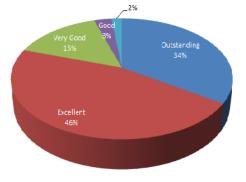All the data are given by percentage of satisfaction by the employer.

Parent Feedback Analysis

Ambience/ Infrastructure of the college with respect to the facilities given to your wards
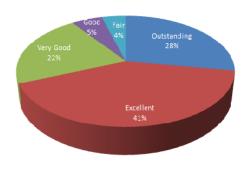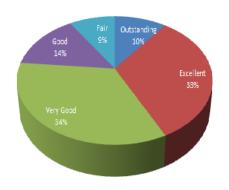

Outstanding 22%
Excellent 46%
Very Good 22%
Good 5%
Fair 4%

The Teaching-Learning Environment

Outstanding 34%
Excellent 46%
Very Good 15%
Good 3%
Fair 2%

System of Monitoring Students Progress

Outstanding 22%
Excellent 49%
Very Good 18%
Good 9%
Fair 2%

Learning Resources such as Library, Internet, Computer etc.

Outstanding 28%
Excellent 41%
Very Good 22%
Good 5%
Fair 4%

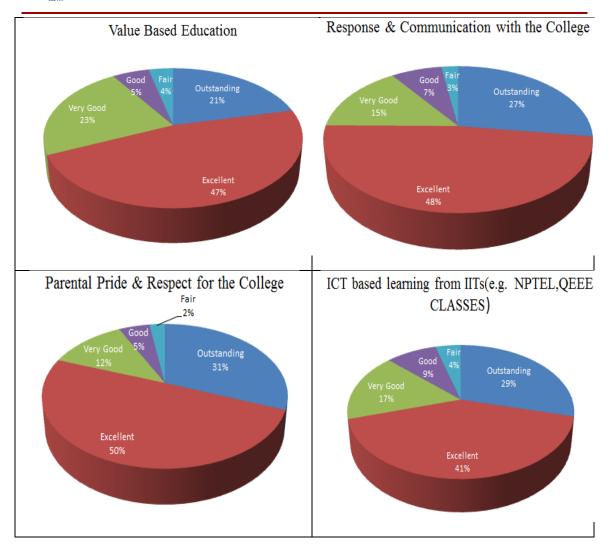### Support services like Canteen, Student computer centre, Career counselling cell, sports, Gymnasium etc.

Outstanding 10%
Excellent 33%
Very Good 34%
Good 14%
Fair 9%

Institutional Sensitivity to changing educational, social & market demands(Spoken English, Personality development programmes, Career oriented programmes etc.)

Outstanding 23%
Excellent 43%
Very Good 22%
Good 7%
Fair 5%

Value Based Education

- Outstanding 21%
- Excellent 47%
- Very Good 23%
- Good 5%
- Fair 4%

Response & Communication with the College

- Outstanding 27%
- Excellent 48%
- Very Good 15%
- Good 7%
- Fair 3%

Parental Pride & Respect for the College

- Outstanding 31%
- Excellent 50%
- Very Good 12%
- Good 5%
- Fair 2%

ICT based learning from IITs(e.g. NPTEL,QEEE CLASSES)

- Outstanding 29%
- Excellent 41%
- Very Good 17%
- Good 9%
- Fair 4%

Best Practice I

1. Title of the Practice

ICT based Teaching Learning Process.

2. Goal

To widen up the learning horizons of the students.

3. The Context

In university affiliated Institute teaching learning is normally bounded by prescribed syllabus which quite often fails to satisfy job market demands. It is therefore essential to equip the students with recent development in science and technology by advanced learning from eminent speakers from world renowned Institutes or Universities.

4. The Practice

ICT based teaching learning process is being practiced mainly in the following different ways:
  a. At least 2 class rooms on every dept. have been set equipped with Internet connection and audio visual facility

  b. 16 Mbps. Wi-Fi connections are provided in every wherein the campus.

  c. QEEE programmes initiated by MHRD GOI, and conducted by IIT Madras being implemented since July 2014.

  d. MCKVIE is a partner Institute of NPTEL with IIT Kharagpur since July 2016 and conducted certificate courses during summer break

  e. Library is equipped with e-books and e-journals and make it available in institute portal to ensure 24 hours availability

5. Evidence of Success

  a. Almost all students of all Departments are enthusiastically taking advantage of this ICT based learning facilities.

  b. QEEE authority recognized our institute as one of top 20 institutes all over India during 2015-16 on the basis of students attendance and performance.

  c. 25 students successfully passed examinations conducted by NPTEL.

6. Problems Encountered and Resources Required

  a. Problem encountered in implementing full ICT based teaching learning is relating to mindset of both Faculty & students. Quite a large number of students still prefer printed books than e-books available in Institutes portal. Even Faculty members prefer Black Board teaching

  b. A sizeable member of student could just copy information of Internet specifically in project work; as a result they would not learn seriously.

  c. All faculty & stuff need to be trained to use ICT which is a different problem.

  d. Moreover, introduction of ICT based Teaching learning is very expensive. As a result resource crunch is major constraint.

7. Notes (Optional)

Any other information that may be relevant and important to the reader for adopting/ implementing the Best Practice in their institution (about 150 words).

8. Contact Details

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Best Practice II

1. Title of the Practice

Diagnostic Test of Students at the entry point.

2. Goal

This practice is devised to supplement the knowledge of the marks obtained by the students at the entry level to identify areas and topics in which a particular student is weak and what additional inputs he/she would require to cope with the engineering syllabus.

3. The Context

The institute always envisages ensuring that all students perform well academically and achieving their post college goals, securing good jobs or entering post-graduate courses according to their choices. But in actuality it was found that a sizeable number of students had a 3rd class, had failed in a number of subjects and/ or lost a year. These students generally did not attend classes regularly or some had entered with low marks. The most important factors appeared to be lack of confidence in medium of instruction and/ or failure to comprehend what is being taught in the class due to lack of basic knowledge of the subjects. In this backdrop it is envisaged to identify the particular areas or subjects in which a student is weak and requires additional coaching or remedial measures to equip him to cope with what is being taught.

4. The Practice

The Diagnostic Test is generally conducted within first month of semester start schedule of which is notified to the student at the time of admission. The Test is conducted in Mathematics, Physics, Mechanics, English on the basis of class XII syllabus both in written and verbal communication. Those who score below 60% in a particular subject or in overall result are identified as Weak students. To address the identified weaknesses arrangements are made for Remedial classes on relevant subjects regularly. Arrangement of special caring classes on specific subjects (both domain knowledge & soft skill) to clear doubt is also being arranged. Tests are conducted to monitor the results of remedial classes.

5. Evidence of Success

As a result of the Diagnostic Tests teachers are became aware from the beginning which are the weak areas in those students and accordingly formulate their class room teaching as well as areas to be emphasized in Remedial / and doubt clearing classes. The tendency to avoid classes is minimized. Student results have also improved.

6. Problems Encountered and Resources Required

University syllabus is already heavy and consumes the regular teaching time of the faculty members. To shoulder the additional responsibility of organizing separate Remedial Classes etc. by them after the normal working hours and / or during summer and winter recess is obviously not welcoming. Additional remuneration for such additional activities would have been encouraging. But this requires mobilization of additional resources which is difficult in the given condition.

7. Notes (Optional)

Any other information that may be relevant and important to the reader for adopting/ implementing the Best Practice in their institution (about 150 words).

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