



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	MCKV INSTITUTE OF ENGINEERING
Name of the head of the Institution	Dr. Buddhadeb Chattopadhyay
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	03326549315
Mobile no.	9830432192
Registered Email	principal@mckvie.edu.in
Alternate Email	mckvie@vsnl.net
Address	243 G. T. Road (North), Liluah
City/Town	Howrah
State/UT	West Bengal
Pincode	711204
2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. Ranjib Biswas
Phone no/Alternate Phone no.	03326549315
Mobile no.	9830086991
Registered Email	ranjib.biswas@gmail.com
Alternate Email	iqac.mckvie@gmail.com
3. Website Address	

Web-link of the AQAR: (Previous Academic Year)	http://mckvie.edu.in/site/assets/files/1310/es_sc_28a_a177_1_dated_30-10-2017-mckv_institute_of_engineering_liluah_howrah_west_bengal.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes, whether it is uploaded in the institutional website: Weblink :	http://mckvie.edu.in/site/assets/files/1120/academic_calendar_2019_2.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.02	2017	30-Oct-2017	29-Oct-2022

6. Date of Establishment of IQAC	29-Sep-2016
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/beneficiaries
Workshop on Latest Development in Automotive Technology with hands on training at MCKV VECV Centre	08-Apr-2019 1	24
Workshop on Latest Development in Automotive Technology with hands on training at MCKV VECV Centre	12-Apr-2019 1	17
Summer training program on Automotive Electricals and Electronics for students of 2nd and 3rd year at MCKV-BOSCH Joint certification Centre	18-Jun-2019 10	55
Training program for students of Department of Mechanical engineering, Govt. College of Engineering and Textile Technology, Berhampore at MCKV-VECV training centre	30-Apr-2019 1	4
Seminar (under QUEST) on Implementation of moodle	13-Jul-2018 1	6
Workshop on Android Technology by Techtree Technologies organized by MCA dept	21-Aug-2018 3	33
Workshop on MOOCs training under TEQIP, Phase III of Calcutta University	01-Aug-2018 3	38
Workshop on Application of IOT:Geriatric Care	27-Sep-2018 1	45
Workshop on Application of Linux and Shell Programming	02-Nov-	11

	2018 1	
Workshop on Application of Linux and Shell Programming	05- Dec- 2018 1	37
Workshop on Exploring SQL and PL/SQL	05- Feb- 2019 1	26
Workshop on Exploring SQL and PL/SQL	06- Mar- 2019 1	34
Workshop on implementation of MOOC platform	02- May- 2019 2	22
Brainrush 2K18	28- Sep- 2018 1	93
Quizzare2019	12- Apr- 2019 1	78
KODIKAS 2K19	07- May- 2019 1	39
Seminar on Networking	10- Sep- 2018 1	60
Seminar on Database Management System	05- Oct- 2018 1	65
Workshop on Java Programming	03- Dec- 2018 3	35
Seminar on Engineering Education and its Future Prospect	16- Jan- 2019 1	39
Seminar on Data Analytics with AI: IE(I) Students	10- Apr- 2019 1	45
Seminar on Angular JS and node JS	25- Feb- 2019 1	30
FDP on IOT In Healthcare Applications	05- Feb- 2019 2	60
Seminar on Block Chain	07- Jan- 2019 1	35

Seminar on Hyperledger	07-Jan-2019 1	35
Symposium on Recent Trends in Computing: IoT and Robotics	29-Sep-2018 1	36
Invited Talk on Cyber Security in Social life and Career prospects in the domain	27-Sep-2018 1	60
Invited Talk on Evolution of Engg. & Technology with Human Development	13-Sep-2018 1	56
Training on Python Programming	11-Sep-2018 3	34
Training on Video Editing	24-Jul-2018 4	27
Technical Grooming on What IT Needs Today?	16-Aug-2018 1	50
Invited Talk on Data Mining Issues for Current Social Media Trends	13-Aug-2018 1	44
Conducted an outreach programme by delivering two powerpoint-enabled lecture sessions before 9th and 10th Standard students on Computer Awareness at Jamaibati High school, Haripal, Dist. Hooghly	20-Sep-2019 1	150
Industry visit at Johnson controls Hitachi Engineering Excellence Centre, Kolkata.	05-Sep-2018 1	4
Industry visit at Himadri Memorial Cancer Research Institute, Kolkata	15-Sep-2018 1	17
Guest Lecture on Recent Trends in Industry Role of Fresh Engineers and Industry Expectations	22-Feb-2019 1	60
Industry Visitat RBA Ferro Alloys Ltd., Ankurhati.	08-Apr-2019 3	15
Industry Visit at TEGA Industries Ltd., Samali Plant, Joka, Kolkata.	18-Apr-2019 1	12
Technical Safety Awareness Training in collaboration with Praxair India Pvt. Ltd	13-Sep-2018 1	40
One day Seminar on Electric Vehicle in association with SAE India	23-Jul-	103

	2018 1	
World Photography Day celebration by MCKVIE-SAE photography club through Photography Exhibition cum competition and Expert lecture on Composition of photography	20-Sep-2018 1	40
Expert lecture on Smart Buildings and energy optimisation	30-Jul-2018 1	103
Expert lecture on Electric Bus	01-Aug-2018 1	40
Seminar on SOLID WORKS	24-Aug-2018 1	48
Awareness Programme on Entrepreneurship	24-Aug-2018 1	61
Seminar on Latest Technologies in Commercial Vehicle Industry	04-Sep-2018 1	69
Seminar on Effect of Consumer Behavior on Automotive Technology	03-Nov-2018 1	27
Supra Technical Workshop in Association with SAE India	09-Feb-2019 1	50
Road Safety Awareness in association with Honda Motorcycles & Scooter India Pvt. Ltd	06-Feb-2019 1	130
Workshop on Latest Development in Automotive Technology with hands on training at MCKV VECV Centre	29-Mar-2019 1	41

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8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Electronics and Communication Engineering	MODROB	AICTE	2018 730	1259200
Dr. Dipankar Ghosh	Core Research Grant	DST SERB	2018 1095	400000

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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification

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of formation of IQAC	
10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
Conducted and attended Seminar/ FDP/ Conference/ Workshops/ Industry Visit/ Expert Lecture/ Training etc. to promote quality, research development for students and staffs.	
Conducted academic audit and green audit by a team of external experts.	
Collected Feedback from various stake holders and analyzed.	
Adapted policies for CAS, Self Appraisal of employees.	
Conducted various awareness programmes and outreach activities addressing social issues.	
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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year	
Plan of Action	Achivements/Outcomes
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 performance, co curricular and extra curricular achievements and attendance in the class.
Encouragement to conduct Seminar/ Conference/ Workshops/ Training/ Expert lecture etc. both for students and staffs.	Conducted Seminar/ Conference/ Workshops/ Training/ Expert Lecture etc. to promote quality, research & development, encourage students to pursue higher education.
Collection of feedback twice in a semester from students on teachers' performance and from other stakeholders of the institute.	Online feedback from students of each department twice in a semester are collected and analysed. Consolidated reports were sent to the departmental heads through Principal for further remedial actions, if any. Feedbacks are collected from different stakeholders through various programmes like Alumni Meet, Parent Teacher Meet, Online Survey etc. The consolidated reports are sent to the Management for further considerations.
Introduction of modified Self Appraisal Systems for	Staff members submitted Self Appraisal through HODs in the modified format.

staff members.	
Arrangement of various awareness programmes and outreach activities addressing social issues.	Many activities had been conducted through NSS activities, 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	NBA Accreditation B.Tech. in Information Technology Programme is under process. Peer Team Visit will be conducted in August, 2019 tentatively.
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 for students.
Adapted Credit transfers under Mandatory Additional Requirement and B.Tech Honours degree scheme as per University norms. Also, Mentoring System for the students were planned.	Implemented the scheme of earning Credits under Mandatory Additional Requirement. Good no. of students enrolled and successfully completed in NPTEL Certification Courses. Mentoring system has been implemented for the students using online platform.
Participation in different institutional ranking systems	Participated in NIRF and MDRA India Today Ranking.

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Name of Statutory Body</th> <th style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Board of Governors (BOG)</td> <td>31-Aug-2019</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Board of Governors (BOG)	31-Aug-2019
Name of Statutory Body	Meeting Date				
Board of Governors (BOG)	31-Aug-2019				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2019				
Date of Submission	22-Feb-2019				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Management Information System of MCKVIE has two webbased 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.				

Part B

CRITERION I - CURRICULAR ASPECTS**1.1 - Curriculum Planning and Implementation**

1.1.1 - Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

As MCKV Institute of Engineering is an affiliated institution under Moulana Abul Kalam Azad University of Technology in West Bengal, curriculum is set by the affiliating university. The entire curriculum delivery process is described below: At the end of each semester, curriculum papers for the next semester are assigned among faculties and laboratory instructors in a Departmental Academic Committee (DAC) meeting executed once in a month and chaired by HOD. Paper allocation is documented in the approved minutes of DAC. After the paper distribution is over, time table for the corresponding semester is prepared by the time table Committee members of each department. After the finalization of time table, it is issued by HOD and finally approved by Principal and circulated among the departments for interdisciplinary allocation. At the beginning of each semester, as per the academic calendar of affiliating University and Institution, each faculty member has to prepare and submit 'Lesson Plan' to the HOD for all allocated subjects. Format of 'Lesson Plan' is defined to be unique around the Institute and after passed through by the HOD, it is reviewed by the Dean (Academics) and finally by the Principal. For each curriculum paper, faculty members have to prepare and maintain a file known as 'Course File' which contains documents for various kinds of data, mentioned as below: At first, curriculum according to university format is provided. Further, Lesson Plan, Time Table for the particular stream and semester are kept along with the individual time table of the faculty. Course Information details are mentioned in 3rd section. Copy of paper related course materials is kept in the next section. Copies of question sets for class tests along with checked answer- scripts are documented next. Sets of assignments along with copies of student scripts are documented in section 6. Next, copy of semester question papers along with the solutions of those questions prepared by faculty is documented. Finally, 'Course Coverage Report' is submitted by each faculty to the HOD at the end of academic session. This report is further reviewed by Dean (Academics) and Principal. After the semester result is published by the university, analysis of the same along with other assessment methods are done by the faculty. Course Assessment Report is prepared and submitted by faculty. If faculty contributes in delivering lectures covering content beyond curriculum and further, related to modern industry need, those documents are recorded next. After each assessment such as class test, assignment, quiz, viva etc., weak students are identified for those topics on which they fall short to grab the concepts and fail to apply. Remedial classes are arranged by the faculty and improvement test is taken for reflection of improvement. Documents for remedial class arrangement such as copy of notice issued etc. and copy of improvement test assessment and answer scripts are also recorded.

1.1.2 - Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
No Data Entered/Not Applicable !!!					

1.2 - Academic Flexibility

1.2.1 - New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
No Data Entered/Not Applicable !!!		

1.2.3 - Students enrolled in Certificate/ Diploma Courses introduced during the year

Certificate	Diploma Course
No Data Entered/Not Applicable !!!	

1.3 - Curriculum Enrichment

1.3.1 - Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
No Data Entered/Not Applicable !!!		

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1.3.2 - Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	All Streams	12
BTech	Autonobile and Mechanical Engineering	50

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1.4 - Feedback System

1.4.1 - Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 - How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

MCKV Institute of Engineering is a selffinanced institution, approved by AICTE, under the affiliation Moulana Abul Kalam Azad University of Technology, West Bengal. Feedback from various stakeholders is obtained to achieve Institute's Mission and Vision for continuous progress and development and thriving for a centre of excellence. Students Feedback: As per the Institute norms online feedback is collected twice in a semester from students having on certain percentage of attendance in the class. Feedback is collected for faculties and laboratory assistants based on certain parameters and perspectives viz. regularity and punctuality of teaching staff in class, coverage of topics as per lesson plan, providing reference to the latest developments in the field, student's level of understanding, sharing of answers for questions in class tests and university examinations, affording extra time to students beyond regular class hours, helping students in realizing their strength and development needs, teaching staff's control over the class, inspiring students for ethical conduct and communication skills. Overall performance of faculties and teaching assistants is evaluated based on the feedback obtained for allocated curriculum papers. Feedback driven overall performance is communicated to the teaching staffs for further improvements to take necessary steps for selfcorrection. If overall performance indicated by the feedback is not satisfactory then recommendations are prescribed for corrective measures such as undergoing training on specific domains etc. Parents feedback action taken report Make the teaching more practical based and interesting, institute collaborates with industries and professional bodies. Apart from regular teaching, social awareness and human values to be imparted to students. Institution was encouraged for participating in competitions organised by others organizations or institutes which enhance the overall development of the institution. Alumni feedback action taken report The alumni appreciated the existing pattern of education, they suggested to give more stress to research activities, capacity building and skill training program and the action taken report were given below. After collects feedback from Alumni, the college took the necessary action for further development of the institution. Some of them are explained below 1. Interdisciplinary projects wereencouraged and Inter departmental research initiatives was encouraged. 2. Enhanced Entrepreneurial skills by entrepreneur development classes. 3. Prestigious alumni were invited to givemotivational talks to the students and present needs of Industries. 4. Communication skills training, soft skill training, improvement of the domain knowledgeand others career related training were given to the students by NPTEL/MOOCs, COCUBES, Inhouse training etc.. 5. 'Alumni students' interaction by departmental alumni meet or institutional alumni meet. Employer feedback and action taken report: After getting the feedback from employer, institute has taken action for overall development of the institution. The recruiters from IT companies and other industries suggested that the few students need to be improved their database and programming subjects. So college have focused more on the soft skill training. Students need to be aware of industry exposure. So invited resource persons from industries were made to address the students. For increase the domain knowledge college has arranged different certificate course like NPTEL, inhouse training etc.

CRITERION II - TEACHING- LEARNING AND EVALUATION

2.1 - Student Enrolment and Profile**2.1.1 - Demand Ratio during the year**

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Automobile Engineering	63	17	17
BTech	Computer Science and Engineering	63	63	63
BTech	Electronics and Communication Engineering	63	63	63
BTech	Electrical Engineering	63	57	57
BTech	Information Technology	63	63	63
BTech	Mechanical Engineering	63	32	32
MCA	MCA	30	5	5

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2.2 - Catering to Student Diversity**2.2.1 - Student - Full time teacher ratio (current year data)**

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1356	44	64	7	20

2.3 - Teaching - Learning Process**2.3.1 - Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)**

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
91	63	6	17	1	2

2.3.2 - Students mentoring system available in the institution? Give details. (maximum 500 words)

1st year students of all stream are under the supervision of Basic Science department. Mentors of each stream are allotted from the respective departments and during the induction program interactive sessions between the Mentor Mentee are organised effectively. To ensure effective mentoring during the critical days of 1st year Basic Science Department has framed one Coordinator System which executes most effectively. Functions of Coordinator System: An interface between the HOD and Subject teachers. It is expected from the Head of the Department to work together with his/her departmental and supporting departmental colleagues to ensure high standards of teaching and learning for establishment of Outcome Based Education. However, due to academic and ancillary administrative overheads, HOD's schedule always remains full of activities. As a consequence, subject teachers may face some problems such as reporting every issue related to class activities or even class adjustments. Solution to those problems is Appointment of a Coordinator. □ Duties of the Coordinators: 1. To bridge the gap between the HOD and Subject Teachers. 2. To observe usual classes and to inform the observations to the HOD as and when required. 3. To take necessary steps in order to utilize the scheduled teaching hours optimally. 4. To collect the data of irregular and weak students at least twice in a month and provide the remedy (with the consultation of the HOD) to the Subject Teachers. 5. To inform the parents of the students who have shortfall in attendance. 6. To conduct meeting with the Subject Teachers as and when required where they can share their opinions for the betterment of the students. 7. To be present at the Faculty Students Parents meeting and to discuss overall progress of students. 8. To discuss about the problem and overall progress of students with the parents called for irregularity in classes or for poor marks or for any misbehavior of the students. 9. To prepare an overall performance report of the class after each semester and hand it over to the HOD of Basic Science who will send the yearly report to the HOD of the respective department. 10. To identify the critical students and to make a report of it supported by documents. This report is to be submitted to the HOD who will send copies of it to the (a) HOD of the relevant department, (b) Training and Placement Officer, (c) Student File. Coordinators prepare one report of the entire batch of students in detail, based upon their performance which may be used by the respective mentors as the batch gets promoted to 2nd year.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1356	91	1 : 15

2.4 - Teacher Profile and Quality**2.4.1 - Number of full time teachers appointed during the year**

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D

96

91

5

4

27

2.4.2 - Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. S. S. Thakur	Associate Professor	Ph.D. in Engineering (CS) from Jadavpur University, Kolkata
2019	Ms. Debopoma Kar Ray	Assistant Professor	Best Paper Award
2018	Dr. Tamal Roy	Assistant Professor	Editor of Algorithms Modeling and simulation in science, technology and engineering mathematics book
2018	Dr. Tamal Roy	Assistant Professor	Reelected as Honable Secretary of IET Kolkata Local Network
2018	Ms. Debopoma Kar Ray	Assistant Professor	Elected as Honable Secretary of IET Young Professional Section Kolkata Local Network
2018	Dr. Indrajit De	Associate Professor	Attendance fellowship grant from Internet SocietyUSA to participate in IETF103 held from 3rd 9th November, 2018 at Bangkok, Thailand
2018	Dr. Prasenjit Chatterjee	Associate Professor	"Best Track Paper Award" at 7th International Conference on Industrial Engineering and Operations Management (IEOM) 2018, Paris, July 26th-27th, 2018.
2018	Mr. Jaideep Dutta	Assistant Professor	"Best Oral Presentation Award" in ICRIDME 2018 Conference at National Institute of Technology Meghalaya, 8th - 10th November, 2018
2018	Ms. Suchismita Ghosh Mukherjee	Assistant Professor	Elected as Honable committee member of IET Young Professional Section Kolkata Local Network
2018	Mr. Sudeep Samanta	Assistant Professor	Elected as Honable committee member of IET Young Professional Section Kolkata Local Network
2018	Dr. Amit Phadikar	Associate Professor	Recognized as a PhD defense committee Member of Photonics Dept., Yuan Ze University, Taiwan

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2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	All	Odd	19/12/2018	27/02/2019
Mtech	Communication	Odd	19/12/2018	27/02/2019
MCA	MCA	Odd	19/12/2018	27/02/2019
BTech	All	Even	17/06/2019	31/07/2019
Mtech	Communication	Even	17/06/2019	31/07/2019
MCA	MCA	Even	17/06/2019	31/07/2019

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2.5.2 - Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The concept of continuous evaluation for internal assessment of students came into existence in academic year 2018-19. As per the guidelines received from affiliating university, the internal assessment had the following components. 1. Theoretical Courses: Internal marks is calculated taking weighted sum of continuous internal tests, assignments, quiz, surprise test and attendance in the class. The questions for internal tests are to be outcome based. Avoid questions which involve only memory exercises and also avoid short notes. Four types of assignments are suggested which are Problem solving, Term paper, Mini project and Presentation seminar. The weightage of these tests is 30 of the full marks of the paper, remaining 70 is assessed through end semester examination. 2. Practical Sessional Courses: Experiments conducted, Lab report, Viva voce etc. are considered for internal assessment of

practical and sessional papers. As per above description, two number of internal tests for theoretical papers with full marks 50 were organized at the Institute in 201819 academic year.

2.5.3 - Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The academic calendar is an important document, which contains the dates of activities to guide the teachers and students. Our academic calendar provides useful information about teaching days, examination dates, extra cocurricular activities, semester and internal examinations. Before the commencement of every semester respective departments prepare a detailed study plan, assignments for the individual teachers and the number of classes allotted to each course. On the basis of this the Dean (Academic) prepares a detailed timetable and academic calendar for the entire semester. Finally this is distributed to the departmental teachers and the students and also made available on college Website. The effectiveness of the process is maintained through monitoring by the Principal/ Deans/ HoDs. The Principal/Dean (Academic) looks after it to ensure the execution of the activities by all departments. The college has a vibrant culture of instilling inquisitiveness and scientific temper among the students through a number of activities.

2.6 - Student Performance and Learning Outcomes

2.6.1 - Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.mckvie.edu.in/academics/departments-and-programs/>

2.6.2 - Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
001	BTech	Computer Science & Engineering	71	68	95.77
002	BTech	Information Technology	63	62	98.41
003	BTech	Electronics & Communication Engineering	70	68	97.14
032	BTech	Automobile Engineering	61	57	93.44
007	BTech	Mechanical Engineering	73	70	95.89
016	BTech	Electrical Engineering	65	61	95.85
010	MCA	MCA	18	15	83.33
105	Mtech	Communication	4	3	75.00

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2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://www.mckvie.edu.in/site/assets/files/1942/2_7.pdf

CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	365	AICTE	1574000	1259200
Major Projects	1095	DST SERB	2161170	400000

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3.2 - Innovation Ecosystem

3.2.1 - Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
One day seminar on "Recent Trends in Industry Role of Fresh Engineers and Industry Expectations"	Mechanical Engineering	22/02/2019
One day seminar on "Technical Safety Awareness Training"	Mechanical Engineering	13/09/2018
Fabric of Technology	Basic Science	15/06/2019
Awareness Program on Entrepreneurship	Automobile Engineering	24/08/2018

3.2.2 - Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Performance rating by NPTEL	MCKV Institute of Engineering	NPTEL	01/11/2018	A

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3.2.3 - No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					

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3.3 - Research Publications and Awards

3.3.1 - Incentive to the teachers who receive recognition/awards

State	National	International
0	0	17

3.3.2 - Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Electrical Engineering	1
Information Technology	1
Electronics and Communication Engineering	3

3.3.3 - Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Basic Science	10	2.4
International	Information Technology	4	1.5
International	Electrical Engineering	3	1.6
International	Electronics and Communication Engineering	26	1.5
International	Automobile Engineering	8	0.9
International	Mechanical Engineering	17	2.5

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3.3.4 - Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Information Technology	4
Automobile Engineering	3
Computer Science and Engineering	4
Electrical Engineering	8
Mechanical Engineering	10
Electronics and Communication Engineering	4

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3.3.5 - Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Polymer Testing	Debapriya De, Arun K. Jalan	Elsevier	2018	0	MCKV Institute of Engineering	3
Advances in Polymer Technology	Debapriya De, Arun K. Jalan	Wiley	2018	0	MCKV Institute of Engineering	1
Polymer Composites	Debapriya De	Wiley	2019	0	MCKV Institute of Engineering	2
Journal of Elastomers and Plastics	Debapriya De	Sage	2019	0	MCKV Institute of Engineering	2
International Journal of Management Studies	Arun K. Jalan, Utpal Sarkar	International Journal of Management Studies	2018	0	MCKV Institute of Engineering	2
International Journal of Management Studies	Arun K. Jalan, Utpal Sarkar	Educational Research Multimedia Publications	2018	0	MCKV Institute of Engineering	2
An efficient way of third order dispersion compensation for reshaping parabolic pulses through normal dispersion fiber amplifier	Dipankar Ghosh	Journal of Optics (IOP)	2018	0	MCKV Institute of Engineering	3
Potential use of nonlinearity induced virtual gain on parabolic pulse formation in highly nonlinear tapered fiber system	Dipankar Ghosh	Journal of Optics (IOP)	2019	0	MCKV Institute of Engineering	3
Parabolic pulse regeneration in normal dispersion decreasing fibers and its equivalent substitutes in presence of third order dispersion	Dipankar Ghosh	Applied Physics B (Springer)	2019	0	MCKV Institute of Engineering	0
Framing the features of a DarcyForchheimer nanofluid flow past a Riga plate with chemical reaction by HPM	Shib Sankar Giri	The European Physical Journal Plus (Springer)	2018	0	MCKV Institute of Engineering	0
Inclined magnetic field effects on unsteady nanofluid flow and heat transfer in a finite thin film with nonuniform heat source/sink	Shib Sankar Giri	Multidiscipline Modeling in Materials and Structures (Emerald publishing limited)	2018	0	MCKV Institute of Engineering	0

Heat conduction and mass transfer in a MHD nanofluid flow subject to generalized Fourier and Fick's law	Shib Sankar Giri	Mechanics of Advanced Materials and Structures (Taylor Francis)	2018	0	MCKV Institute of Engineering	0
Selection of Commercially available electric vehicles using FuzzyAHP MABAC	Mr. Tapas Kr. Biswas and Dr. Manik Chandra Das	Journal of Institution of Engineers : Series C, Springer link	2018	0	MCKV Institute of Engineering	5
Multiobjective optimisation of pulsed Nd:YAG laser cutting process using integrated ANN-NSGAI model	Sudipto Chaki Ravi N. Bathe Sujit Ghosal G. Padmanabham	Journal of Intelligent Manufacturing, Springer link	2018	0	MCKV Institute of Engineering	30
Selection of Commercially available scooters by new MCDM method	Tapas Kumar Biswas and Pritha Saha	International Journal of Network and data Science	2019	0	MCKV Institute of Engineering	0
Selection of Nd:YAG laser beam microdrilling parameters using multicriteria decision making methods	Ranjib Biswas, Manik Chandra Das, Suvanjan Bhattacharyya, Arunanshu S. Kuar, Souren Mitra	Optics Laser Technology, Elsevier	2019	0	MCKV Institute of Engineering	0
Neural networks based prediction modelling of hybrid laser beam welding process parameters with sensitivity analysis	Sudipto Chaki	SN Applied Sciences, Springer	2019	0	MCKV Institute of Engineering	0
Comparative performance of electric vehicles using evaluation of mixed data	Manik Chandra Das, Abanish Pandey, Arun Kumar Mahato, Rajnish Kumar Singh	OPSEARCH, Springer	2019	0	MCKV Institute of Engineering	0
Functional nanostructured materials and nano composites	Animesh Talapatra, Debasis Dutta	Book Chapter, River Publishers IGI Global	2019	0	MCKV Institute of Engineering	0
An Integrated Methodology for Evaluation of Electric Vehicles Under Sustainable Automotive Environment	Tapas Kr Biswas, Prasenjit Chatterjee	Book Chapter, IGI Global	2019	0	MCKV Institute of Engineering	0
Design of different reference model based model reference adaptive controller for inversed model nonminimum phase system	M Pal, G Sarkar, RK Barai, T Roy	Mathematical Modelling of Engineering Problems	2018	4	MCKV Institute of Engineering	4
Parallel Hardware Implementation of Data Hiding Scheme for Quality Access Control of Grayscale Image Based on FPGA	Amit Phadikar	Multidimensional Systems and Signal Processing, Springer	2019	0.468	MCKV Institute of Engineering	0
FPGA Implementation of Lifting Based Data Hiding Scheme for Efficient Quality Access Control of Images	Amit Phadikar	Circuits, Systems Signal Processing, Springer	2019	0.563	MCKV Institute of Engineering	0
FPGA Based Low Power	Amit Phadikar	Microsystem	2018	0.324	MCKV	0

Hardware for Quality Access Control of Compressed Gray Scale Image		Technologies, Springer			Institute of Engineering	
A novel integrated decisionmaking approach for evaluation and selection of renewable energy technologies	Prasenjit Chatterjee	Clean Technologies and Environmental Policy	2018	0	MCKV Institute of Engineering	17
Development of a hybrid metamodel for materials selection using Design of Experiments and EDAS method	Prasenjit Chatterjee	Engineering Transactions	2018	0	MCKV Institute of Engineering	7
An Integrated DEMATELVIKOR methodbased approach for cotton fibre selection and evaluation	Prasenjit Chatterjee	Journal of the Institution of Engineers (India) Series E	2018	0	MCKV Institute of Engineering	8
Cotton fabric selection using a grey fuzzy relational analysis approach	Prasenjit Chatterjee	Journal of the Institution of Engineers (India) Series E	2018	0	MCKV Institute of Engineering	2
Development of a Decision Support Framework for Sustainable Freight Transport System Evaluation using Rough Numbers	Prasenjit Chatterjee	International Journal of Production Research	2019	0	MCKV Institute of Engineering	0
A new Fuzzy methodologybased structured framework for RAM and risk analysis	Prasenjit Chatterjee	Applied Soft Computing	2019	0	MCKV Institute of Engineering	10
A multicriteria decisionmaking framework for agriculture supply chain risk management under a circular economy context	Prasenjit Chatterjee	Management Decision	2019	0	MCKV Institute of Engineering	0
A riskbased integrated decisionmaking model for green supplier selection: A case study of a construction company in Spain	Prasenjit Chatterjee	Kybernetes	2019	0	MCKV Institute of Engineering	0
An Integrated MultiAttribute Model for Evaluation of Sustainable Mobile Phone	Prasenjit Chatterjee	Sustainability	2019	0	MCKV Institute of Engineering	1
Comparative evaluation of sustainable design based on stepwise weight assessment ratio analysis (SWARA) and best worst method (BWM) methods: A perspective on household furnishing materials	Prasenjit Chatterjee	Symmetry	2019	0	MCKV Institute of Engineering	5
The Role of Façade Materials in BlastResistant Buildings: An Evaluation Based on Fuzzy Delphi and Fuzzy EDAS	Prasenjit Chatterjee	Algorithms	2019	0	MCKV Institute of Engineering	1
BiLevel MultiObjective Production Planning	Prasenjit Chatterjee	Algorithms	2019	0	MCKV Institute	0

Problem with MultiChoice Parameters: A Fuzzy Goal Programming Algorithm					of Engineering	
A DoETOPSIS Methodbased Metamodel for Parametric Optimization of Nontraditional Machining Processes	Prasenjit Chatterjee	Journal Modelling in Management	2019	0	MCKV Institute of Engineering	0
A developed metamodel for biomaterials selection	Prasenjit Chatterjee	Trends in Biomaterials and Artificial Organs	2019	0	MCKV Institute of Engineering	0
Exact analysis based on BDLTNE approach for thermal behaviour in living tissues during regional hyperthermia therapy	Jaideep Dutta	Acta Mechanica	2019	0	MCKV Institute of Engineering	1
A High Performance Piano Note Recognition Scheme	Swarup Kumar Mitra	IETE Journal of Education,	2018	0	MCKV Institute of Engineering	0
Text Localization in Camera Captured Images using Fuzzy Distance Transform based Adaptive Stroke Filter	Satadal Saha	Multimedia Tools and Applications, Springer, New York LLC	2019	2	MCKV Institute of Engineering	2

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3.3.6 - h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Advances in Polymer Technology	Debapriya De, Arun K. Jalan	Elsevier	2018	16	3	MCKV Institute of Engineering
Polymer Composites	Debapriya De	Wiley	2018	16	1	MCKV Institute of Engineering
Journal of Elastomers and Plastics	Debapriya De	Wiley	2019	16	2	MCKV Institute of Engineering
International Journal of Management Studies	Arun K. Jalan, Utpal Sarkar	Journal of Elastomers and Plastics	2019	16	2	MCKV Institute of Engineering
International Journal of Management Studies	Arun K. Jalan, Utpal Sarkar	International Journal of Management Studies	2018	6	2	MCKV Institute of Engineering
Advances in Polymer Technology	Debapriya De, Arun K. Jalan	International Journal of Management Studies	2018	6	2	MCKV Institute of Engineering
An efficient way of third order dispersion compensation for	Dipankar Ghosh	Journal of Optics (IOP)	2018	5	3	MCKV Institute

reshaping parabolic pulses through normal dispersion fiber amplifier						of Engineering
Potential use of nonlinearity induced virtual gain on parabolic pulse formation in highly nonlinear tapered fiber system	Dipankar Ghosh	Journal of Optics (IOP)	2019	0	3	MCKV Institute of Engineering
Parabolic pulse regeneration in normal dispersion decreasing fibers and its equivalent substitutes in presence of third order dispersion	Dipankar Ghosh	Applied Physics B (Springer)	2019	0	0	MCKV Institute of Engineering
Framing the features of a DarcyForchheimer nanofluid flow past a Riga plate with chemical reaction by HPM	Shib Sankar Giri	The European Physical Journal Plus (Springer)	2018	0	0	MCKV Institute of Engineering
Inclined magnetic field effects on unsteady nanofluid flow and heat transfer in a finite thin film with nonuniform heat source/sink	Shib Sankar Giri	Multidiscipline Modeling in Materials and Structures (Emerald publishing limited)	2018	0	0	MCKV Institute of Engineering
Heat conduction and mass transfer in a MHD nanofluid flow subject to generalized Fourier and Fick's law	Shib Sankar Giri	Mechanics of Advanced Materials and Structures (Taylor Francis)	2018	0	0	MCKV Institute of Engineering
Parallel Hardware Implementation of Data Hiding Scheme for Quality Access Control of Grayscale Image Based on FPGA	Amit Phadikar	Multidimensional Systems and Signal Processing, Springer	2019	29	0	MCKV Institute of Engineering
FPGA Implementation of Lifting Based Data Hiding Scheme for Efficient Quality Access Control of Images	Amit Phadikar	Circuits, Systems Signal Processing, Springer	2018	38	0	MCKV Institute of Engineering
FPGA Based Low Power Hardware for Quality Access Control of Compressed Gray Scale Image	Amit Phadikar	Microsystem Technologies, Springer	2018	57	0	MCKV Institute of Engineering
A novel integrated decisionmaking approach for evaluation and selection of renewable energy technologies	Prasenjit Chatterjee	Clean Technologies and Environmental Policy	2018	44	17	MCKV Institute of Engineering
Development of a hybrid metamodel for materials selection using Design of Experiments and EDAS method	Prasenjit Chatterjee	Engineering Transactions	2018	7	7	MCKV Institute of Engineering
An Integrated DEMATELVIKOR methodbased approach for cotton fibre selection and evaluation	Prasenjit Chatterjee	Journal of the Institution of Engineers (India): Series E	2018	6	8	MCKV Institute of Engineering
Cotton fabric selection using a grey fuzzy relational analysis approach	Prasenjit Chatterjee	Journal of the Institution of Engineers (India): Series E	2018	6	2	MCKV Institute of Engineering
Development of a Decision Support Framework for Sustainable Freight Transport	Prasenjit Chatterjee	International Journal of	2019	115	0	MCKV Institute

System Evaluation using Rough Numbers		Production Research				of Engineering
A new Fuzzy methodology based structured framework for RAM and risk analysis	Prasenjit Chatterjee	Applied Soft Computing	2019	110	10	MCKV Institute of Engineering
A multicriteria decisionmaking framework for agriculture supply chain risk management under a circular economy context	Prasenjit Chatterjee	Management Decision	2019	82	2	MCKV Institute of Engineering
A riskbased integrated decisionmaking model for green supplier selection: A case study of a construction company in Spain	Prasenjit Chatterjee	Kybernetes	2019	33	0	MCKV Institute of Engineering
An Integrated MultiAttribute Model for Evaluation of Sustainable Mobile Phone	Prasenjit Chatterjee	Sustainability	2019	53	1	MCKV Institute of Engineering
Comparative evaluation of sustainable design based on stepwise weight assessment ratio analysis (SWARA) and best worst method (BWM) methods: A perspective on household furnishing materials	Prasenjit Chatterjee	Symmetry	2019	24	1	MCKV Institute of Engineering
The Role of Façade Materials in BlastResistant Buildings: An Evaluation Based on Fuzzy Delphi and Fuzzy EDAS	Prasenjit Chatterjee	Algorithms	2019	24	1	MCKV Institute of Engineering
BiLevel MultiObjective Production Planning Problem with MultiChoice Parameters: A Fuzzy Goal Programming Algorithm	Prasenjit Chatterjee	Algorithms	2019	24	0	MCKV Institute of Engineering
A DoETOPSIS Methodbased Metamodel for Parametric Optimization of Nontraditional Machining Processes	Prasenjit Chatterjee	Journal Modelling in Management	2019	21	0	MCKV Institute of Engineering
A developed metamodel for biomaterials selection	Prasenjit Chatterjee	Trends in Biomaterials and Artificial Organs	2019	30	0	MCKV Institute of Engineering
A twophase model for supplier evaluation in manufacturing environment, is complete. We are now sending it to production	Prasenjit Chatterjee	Operational Research in Engineering Sciences: Theory and Applications	2019	0	0	MCKV Institute of Engineering
Selection of Nd:YAG laser beam microdrilling parameters using multicriteria decision making methods	Ranjib Biswas	Optics and Laser Technology	2019	63	0	MCKV Institute of Engineering
Exact analysis based on BDLTNE approach for thermal behaviour in living tissues during regional hyperthermia therapy	Jaideep Dutta	Acta Mechanica	2019	65	1	MCKV Institute of Engineering
A High Performance Piano Note Recognition Scheme	Swarup Kumar Mitra	IETE Journal of Education	2018	0	0	MCKV Institute of Engineering
Text Localization in Camera Captured Images using Fuzzy Distance Transform based Adaptive Stroke Filter	Satadal Saha	Multimedia Tools and Applications,	2019	0	2	MCKV Institute of Engineering

Springer, New
York LLC[View File](#)

3.3.7 - Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	6	21	4	19
Presented papers	18	2	0	0
Resource persons	1	3	2	8

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3.4 - Extension Activities

3.4.1 - Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Industry visit	TCS Kolkata	1	3
Industry visit	M/s. Webskitters Technology Solutions	3	32
Seminar on Value Education Positive Thinking	Swami Vivekananda Centre for Positive Thinking in collaboration with Ramkrshna Mission Vivekananda University	20	30
Distribution of Articles toward Needy People	Swami Vivekananda Centre for Positive Thinking	20	0
Two days' workshop on "Hands on Workshop on electric Circuit Design	Institution of Engineering Technology (IET) UK, Kolkata Local Network	3	50

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3.4.2 - Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!			

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3.4.3 - Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!				

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3.5 - Collaborations

3.5.1 - Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Visiting Scientist	Debapriya De	Leibniz Institut fur Polymer Forschung, Dresden, Germany.	88

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3.5.2 - Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact	Duration From	Duration To	Participant
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		details			
Training and Placement	Academic Training partnership	Wipro GE Health Care	17/06/2019	17/08/2019	2
Empowered by MoU	Academic Training partnership	GSSG Tech Solutions LLP (Teknik)	20/03/2019	19/04/2019	2
Internship	Student internship	NIT Raipur	20/06/2018	20/07/2018	1
Internship	Student internship	IIT Kharagpur	18/06/2019	11/07/2019	2

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3.5.3 - MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Bosch India Limited	17/05/2019	Joint Certification Centre (BOSCH MCKVIE JCC)	100
M/s. Webskitters Technology Solutions	14/12/2018	The MOU is primarily targeted for the Training and Placement assistance and Academic exchange cooperation on mutual basis	200

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CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
22	19.33

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Classrooms with Wi-Fi OR LAN	Existing
Classrooms with Wi-Fi OR LAN	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added

4.2 - Library as a Learning Resource

4.2.1 - Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
LIBSYS	Fully	LSEASE	2003

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	33680	8075681	62	11904	33742	8087585

Reference Books	4950	1185185	45	4995	4995	1190180
e-Books	1070	1876767	0	0	1070	1876767
Journals	85	77007	0	0	85	77007
e-Journals	452	207750	15	5696	467	213446
Digital Database	1	13570	0	0	1	13570
Library Automation	1	325000	0	0	1	325000

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4.2.3 - E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. Amit Phadikar	Data Structure	Moodle Cloud	01/07/2018
Dr. Amit Phadikar	Formal Language and Automata Theory	Moodle Cloud	15/05/2019

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4.3 - IT Infrastructure

4.3.1 - Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	693	10	670	1	1	11	8	56	0
Added	7	2	20	1	1	1	0	67	0
Total	700	12	690	2	2	12	8	123	0

4.3.2 - Bandwidth available of internet connection in the Institution (Leased line)

123 MBPS/ GBPS

4.3.3 - Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
No Data Entered/Not Applicable !!!	

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
30	19.5	25	17.5

4.4.2 - Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

To plan, execute, utilize, monitor and maintain the academic and support facilities such as laboratory, library, sports complex, computers, classrooms etc. there exists several committees in departmental as well as institute level. Few such committees are Academic Advisory Committee (AAC), Departmental Academic Committee (DAC), Library committee, Sports committee etc. The members of the committee meet at regular interval to discuss and resolve the issues pertaining to academic and support facilities. The proposals coming out of these committees are then placed to the top management for approval. Once the proposals are approved, actions initiated to implement the policies. The maintenance of the Institute is under the Administration Department. There are 3 staff members available for handling the entire system of maintenance. For the maintenance of Air conditioners and water coolers in the Institute the AMC is given to Vendors outside. Similarly the maintenance of Electrical equipments and day to day cleaning, carpentry the work is done and contract is given to vendors outside. Similarly the security of the Institute is done by outsourcing the job to agency outside on contractual basis.

<http://www.mckvie.edu.in/>

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support**5.1.1 - Scholarships and Financial Support**

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Trust Scholarship	24	510450
Financial Support from Other Sources			
a) National	Govt. and Management Funded	125	3400000
b) International	0	0	0

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5.1.2 - Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Pre placement Training Program	06/08/2018	62	Inhouse
Pre placement Training Program	29/04/2019	52	Inhouse
Pre placement Training Program	06/06/2018	18	Shivam Knowledge Solutions Pvt. Ltd.
Pre placement Training Program	16/07/2018	18	Shivam Knowledge Solutions Pvt. Ltd.
IT Domain Knowledge Training (Data structure and Algorithm, Java)	07/09/2018	9	IT faculty members, of MCKVIE
C Programming, aptitude, soft skill, Mock Assessment, Mock Campus Interview techniques	06/07/2018	245	Shivam Knowledge Solution Pvt. Ltd.
Soft Skill Training	07/09/2018	6	Inhouse
Technical grooming	13/08/2018	93	Inhouse
Aptitude Test Training	19/02/2019	114	Mr. Snehal Doshi and associates
Soft skill	06/03/2019	200	Confederation of Indian Industry (CII)

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5.1.3 - Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Interview Preparation CII ER Education Excellence forum	0	100	0	42
2019	GATE Coaching	5	0	0	0
2018	Guidance for competitive examinations and career counselling conducted by SHIVAM	0	50	0	57
2018	Career guidance training by 'SIVAM Consultancy' will be conducted from 16th July-20th July, 2018 in the Institute.	62	62	0	40

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5.1.4 - Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal

2

2

2

5.2 - Student Progression**5.2.1 - Details of campus placement during the year**

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
111 Nos of Organizations	3806	271	53 Nos of Organizations	2969	188

[View File](#)**5.2.2 - Student progression to higher education in percentage during the year**

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	2	BTech in Automobile Engineering	Automobile Engineering	Vellore Institute of Technology	MTech Automotive Engineering, MTech in Automotive Electronocs
2018	5	ECE, MCKVIE	ECE Dept. MCKVIE	1. POLITECNICO DI TORINO 2. Indian Institute of Engineering Science and Technology, Shibpur 3. Jadavpur University, Kolkata 4. Kalyani Govt. Engineering College	1. Master of Science 2. MTech, ETCE 3. M.E. Tel. E 4. MTECH ECE, Comm
2018	1	BTech in Electrical Engineering	Electrical Engineering	Balaji Institute of Telecom & Management Sri Balaji Society Pune	MBA
2018	3	B Tech in IT	Information Technology	Kengeri campus of Christ University, Bangalore Vidyasagar University, Kolkata Center University of Paderborn, Germany	MBA & MS

[View File](#)**5.2.3 - Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)**

Items	Number of students selected/ qualifying
GATE	13
CAT	2
GRE	1
Any Other	2

[View File](#)**5.2.4 - Sports and cultural activities / competitions organised at the institution level during the year**

Activity	Level	Number of Participants
Annual Cultural Fest	State	2000
Farewell Function (ASCENT)	Institute	400
Freshers Welcome (BALAKA)	Institute	300
Annual Sports	Institute	220
NOSTALGIA. Annual Alumni Meet	Institute	150

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5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	1st Prize in Kumite	International	1	0	BTECH/CSE/18/040	Mr. Debayan Ghosh
2019	1st Prize in Kata	International	1	0	BTECH/CSE/18/040	Mr. Debayan Ghosh

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5.3.2 - Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The Institution dose not has any Student Council or any similar body but there are several committees in the college which have student member, viz. • AntiRagging Committee • Students' Canteen Committee (CAFETERIA) • College Magazine Committee (MCKVIAN'S DIGEST) Etc.

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

Name of the Association: MCKVIE Alumni Association Registration Number: S/2L No.60214 of 20162017 The college has a registered Alumni Association. All the outgoing students automatically become members of the association. The Institute gives importance to feedback data obtained from alumni for the betterment of the Institute. An Alumni meet is organized every year in the institute during which relevant feedback is also collected to improve the institute's performance in academic and professional domain such as the basic requirements of the companies from the graduate engineers.

5.4.2 - No. of enrolled Alumni:

44

5.4.3 - Alumni contribution during the year (in Rupees) :

23800

5.4.4 - Meetings/activities organized by Alumni Association :

The 2019 Annual General Meeting and Reunion of the Alumni Association of MCKVIE Alumni Association was held on Sunday, the 27th January, 2019.

CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization is having a significant impact on policy, planning and management of elementary education. To promote quality of education to all stakeholders in academic, social, ethical arena our Institute is aiming to develop a responsible management. At the same time, decentralization is seen as a means of improving the efficiency of education system and the quality of educational services. i) At various level, the Institute grooms the leadership. Governing body, Management, Principal, IQAC Members, AAC committee, teaching staff, nonteaching staff, supporting staff, student representatives for Hostels, Stakeholders, Alumni and various committees jointly empowered to propose, design, formulate and execute their plans within the frame work of governance. ii) The Academic, Administrative, NSS, IQAC all are working together for the smooth running and over all functioning of the Institute. In case of Participative management: ii) a) Students are empowered to play active role as coordinator of cocurricular and extra curricular activities, social service group coordinator. The institute promotes a culture of participative management by involving the staff and students in various activities. Rotaract club of this Institute is framed to organize several students' programme in and outside the campus. b) Tech Fest and Fest are organized by the students in every year in a lively manner. Students are engaged in designing projects applications in Tech -fest. Students perform their skills in fest. All the programmes are uploaded in the college portal. c) Students are empowered to form the sub committee in the Boys' Girls' hostel for smooth running of hostel under the supervision of Hostel Superintendent and Hostel Warden.

6.1.2 - Does the institution have a Management Information System (MIS)?

Yes

6.2 - Strategy Development and Deployment

6.2.1 - Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
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 previous semester. The curriculum aims at uniformity for earning credit points of all the streams. To reduce the burden of engineering students the credit points have been reduced from 210 to 160 for all streams. Also the provisions have been made to earn additional 20 points more to get B.Tech honours in engineering. Needless to say that the new curriculum aspires for integral development of the learners. In this respect AICTE guidelines are strictly maintained.
Teaching and Learning	Apart from maintaining facilities of the previous year, our Institute has emphasized on providing individual attention to students especially 1st year students. In this respect 20 students are allocated to a coordinator who would monitor the holistic wellbeing of the learners. Mentors of each stream are allotted from the respective departments and during the induction program interactive sessions between the mentor students are organised effectively. To ensure effective mentoring during the critical days of 1st year Basic Science Department has framed one Coordinator System which executes most effectively.
Examination and Evaluation	The concept of continuous evaluation for internal assessment of students came into existence in academic year 201819. As per the guidelines received from affiliating university, the internal assessment had the following components. 1. Theoretical Courses: Internal marks is calculated taking weighted sum of continuous internal tests, assignments, quiz, surprise test and attendance in the class. The questions for internal tests are to be outcome based. Avoid questions which involve only memory exercises and also avoid short notes. Four types of assignments are suggested which are Problem solving, Term paper, Mini project and Presentation seminar. The weightage of these tests is 30 of the full marks of the paper, remaining 70 is assessed through end semester examination. 2. Practical Sessional Courses: Experiments conducted, Lab report, Viva voce etc. are considered for internal assessment of practical and sessional papers. As per above description, two number of internal tests for theoretical papers with full marks 50 were organized at the Institute in 201819 academic year.
Research and Development	In this academic year, our Institute has organised inhouse sensitization programme for developing research proposal for fetching research project for the college. All concerned faculty members of all the departments of the college have participated in this programme and trying their levelbest to prepare research proposal in no time. We expect that in the next academic year we would at least prepare two research proposals for submission to the funding agency.
Library, ICT and Physical Infrastructure / Instrumentation	In this academic year our Institute is planning to have biometrical entry system in the library. It has also planned to bind more than 500 valuable books for further use in future. After detailed discussion our library is continuing with existing management software (LIBSYS). To meet the necessary requirements of the new curriculum the library committee has decided to procure some titles in the central library on modern technology and trends. In this respect guidance from all departments are cordially accepted.
Human Resource Management	To facilitate teachinglearning and develop human resource our faculty members of all departments have attended various faculty development programmes throughout the academic year. The programme includes seminar, Conference, workshop, training, management capacity enhancement programme etc. Our Institute has cordially given financial support to the same. A number of programmes are organised by Swami Vivekananda Centre for Positive Thinking to promote human values to all the stakeholders.
Industry Interaction / Collaboration	To facilitate students' learning and employability, our Institute has encouraged studentindustry interaction vigorously. Renowned training consultancy SHIVAM has already trained our students in the last academic year

	<p>but empowered by their training our students are performing well in this academic year. AMCAT has also conducted online exam under the supervision of our college. In this academic year, from our Institute 600 students have appeared for the test. 365 students from 2019 batch have appeared for the first test and the rest from the 2018 batch. We have also made an agreement with Co Cubes to train our students of 2020 batch. Apart from these, our college also organised many events and activities for students for the same.</p> <p>Some of these companies are: Kreeti technologies Pvt Ltd., TCS, Placementseason, First Naukri, Tech. Mahindra, Mahindra and Mahindra, LTI, Infosys Ltd., etc. Hopefully these students industry interface will help our students both academically and professionally.</p>
Admission of Students	<p>In this academic year our college has decided to hire experts to increase student intake. In this respect the college has sought opinions from the other departments. Their opinions are cordially welcome and would be implemented as soon as possible. For the academic year 201819, three hundred and three (303) students have enrolled in B. Tech, M. Tech, and MCA courses. . Admission process is going on for 201920 session.</p>

6.2.2 - Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	<p>Planning and development: Whats App groups for the HODs, Deans and Management to share the ideas ,information of the world in technological development, upcoming information, economic statistics of the countries, environmental impacts etc.</p>
Administration	<p>Administration accepts the e-governance in different areas like Library (Libsys), ejournal , students registration through on line, online feedback from students, guardians, alumni and Industries to assess the outcome. On line information through students' mobile like attendance, marks obtained in the test has already been activated in the Institute. All type of information is uploaded in the college website for easy access by the students. The Administration of the College functions with Egovernance system at Government, Society and College level. The college tries its levelbest to keep in touch with the latest tools of administration with available tools in hand. With the help of developed technological world, college staff uses the same for administration purpose. Such as use of Smartphone with inbuilt social app like Gmail and WhatsApp. they share the notes to students. It helps to provide the brief notice of any event to be happened on college WhatsApp Group for awareness and of smooth functioning of the same. The college has Biometric attendance for teaching and nonteaching staff. The college campus is equipped with CCTV Cameras at every place of requirement.</p>
Finance and Accounts	<p>The office uses FARVISION ERP pakage</p>
Student Admission and Support	<p>In terms of egovernance Our Institute follows online counselling system organised by West Bengal Govt. All information regarding admission is percolated in the official website. Further, the students receive additional support from the faculty members and technicians of the Institute.</p>
Examination	<p><input type="checkbox"/> In case of examination our faculty members use online portal of the affiliated university to fill up marks of internal examinations within scheduled time. The software used by the affiliated university converts all the marks into a proper format for simplification.</p>

6.3 - Faculty Empowerment Strategies

6.3.1 - Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Mr. Soutrik Bose	13th 15th December, AIMTDR 2018, Anna University, Chennai	Anna University, Chennai	6630
2018	Mr. Nabankur Mandal	29th 31st March, 2019, ICMMM 2019, VIT Vellore	VIT Vellore	6880
2019	Mr. Arijit Sarkar	Recent Trends in Machine Learning and Soft Computing	NA	0
2019	Mr. Sachin	Recent Trends in Machine Learning and	NA	0

	Balo	Soft Computing		
2019	Mr. Subhadeep Dey	Participated in BAJA SAE India event during 23/01/1928/01/19 as Faculty advisor	SAE India	25700
2019	Ms. Soma Bandyopadhyay	IPC19, B. P. Poddar Institute of Management Technology, Kolkata, 13 February, 2019	B. P. Poddar Institute of Management Technology, Kolkata	3000
2019	Ms. Rachita Ghosh Hajra	CIPR 2019, IEST, Shibpur, 1920 January, 2019	IEST Shibpur, Howrah	3000
2019	Ms. Rachita Ghosh Hajra	ICCDC 2019 (HIT INTERNATIONAL CONFERENCE), 1415 March, 2019	NA	0
2019	Mr. Avijit Bose	ICCDC 2019 (HIT INTERNATIONAL CONFERENCE), 1415 March, 2019	NA	0
2019	Dr. S. S. Thakur	ICETSD 19, GCELT, 0506 March, 2019	NA	0

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6.3.2 - Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	One day Seminar on "Electric Vehicle" in association with SAE India		23/07/2018	23/07/2018	7	0
2018	Expert lecture on Smart Buildings and energy optimisation		30/07/2018	30/07/2018	10	0
2018	Expert lecture on "Electric Bus"		01/08/2018	01/08/2018	5	0
2018	Latest Technologies in Commercial Vehicle Industry		04/09/2018	04/09/2018	6	0
2018	Effect of Concurer Behaviour on Automotive Technology		03/03/2018	03/03/2018	6	0
2019	Hyperledger Meetup Kolkata - a seminar on "Developing Softwares using Hyperledger andBlockchain technologies" by Mr.Anupam Agrawal TCS, Mr.Anand Raje - RABT Tech,Mr. Aditya Saha - IBM.		07/01/2019	07/01/2019	5	0
2018	Symposium on Recent Trends in Computing: A crosscutting view of computer on by Prof. (Dr.) Ansuman Banerjee, Associate Professor, ISI Kolkata. Symposium on Recent Trends in Computing: IoT and Robotics by Dr. Himadri Sekhar Paul, Senior Scientist,		29/09/2018	29/09/2018	12	0
2019	IOT in Health Care System		05/02/2019	07/02/2019	12	0

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6.3.3 - No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration

AICTE ISTE Refresher Program on "Developing Teaching Competency for 21st Century learners	1	16/07/2019	21/07/2019	6
WELD 2019 of the Indian Institute of Welding, Kolkata Branch on Advances in Welding, Automation Robotics for Cost Effective Manufacturing	2	23/02/2019	23/02/2019	1
AICTE workshop on examination reforms at JIS university, Agarpara	2	24/01/2019	24/01/2019	1
Interactive Session to motivate the Institutions towards experiencebased learning and reinforce the importance of industrybased education. Speaker: Prof Anil D Sahasrabudhe , Chairman , AICTE	2	15/07/2019	15/07/2019	1
Recent Trends in Machine Learning and Soft Computing	12	16/04/2019	20/04/2019	5
Global Block Chain Cingress Consensus	2	18/12/2018	19/12/2018	2
Cryptography and Cyber Security	1	12/02/2019	16/02/2019	5
IOT in Health Care System	12	05/02/2019	07/02/2019	3
Hyperledger Meetup Kolkata - a seminar on "Developing Softwares using Hyperledger andBlockchain technologies" by Mr.Anupam Agrawal TCS, Mr.Anand Raje - RABT Tech,Mr. Aditya Saha - IBM.	5	07/01/2019	07/01/2019	1
Symposium on Recent Trends in Computing: A crosscutting view of computer on by Prof. (Dr.) Ansuman Banerjee, Associate Professor, ISI Kolkata. Symposium on Recent Trends in Computing: IoT and Robotics by Dr. Himadri Sekhar Paul, Senior Scientist,	12	29/09/2019	29/09/2019	1
Workshop "Remote Health: A Framework for Healthcare Services using Mobile and SensorCloud Technologies"	1	31/07/2018	04/08/2018	5
STC on Machine Learning its Applications	2	09/07/2018	13/07/2018	5
One Week FDP on C C	1	14/01/2019	18/01/2019	5
One Week FDP on Enterprise IOT	2	29/01/2019	02/02/2019	5

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6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
88	3	96	3

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
Yes, facilities of the previous years are cordially resumed.	Yes, facilities of the previous years are cordially resumed.	Yes, facilities of the previous years are cordially resumed.

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each)

The financial audit is going on for the academic year 201819. The previous year financial audit has been successfully completed (201718) .

6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
No Data Entered/Not Applicable !!!		

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6.4.3 - Total corpus fund generated

0

6.5 - Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Intertek	Yes	Inhouse
Administrative	Yes	Intertek	Yes	Inhouse

6.5.2 - Activities and support from the Parent - Teacher Association (at least three)

Our Institute does not have any registered Parent - Teacher Association. But in each semester parent -teacher interface happens to affirm and facilitate teaching learning process. Our Institute welcomes all suggestions and provides verbal feedback of learners to their parents.

6.5.3 - Development programmes for support staff (at least three)

1. Medical check up by MCKV Healthcare. 2. Support staffs attended in different workshop /seminar organized by different Government bodies to know how to apply and process application procedure through govt. portal for different types of scholarships offered. 3. Support staffs participated in Mock drill on fire fighting programme held in the Institute.

6.5.4 - Post Accreditation initiative(s) (mention at least three)

1. Application for conferment for Autonomous status by UGC. 2. Initiative for NBA accreditation of all B.Tech. Programmes 3. Adaptation of credit transfer systems through MOOCs.

6.5.5 - Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 - Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Organised Road Safety Awareness in association with Honda Motorcycles Scooter India Pvt. Ltd.	06/02/2019	06/02/2019	06/02/2019	130
2019	Workshop on Latest Development in Automotive Technology with hands on training at MCKV VECV Centre	29/03/2019	29/03/2019	29/03/2019	41
2019	Workshop on Latest Development in Automotive Technology with hands on training at MCKV VECV Centre	08/04/2019	08/04/2019	08/04/2019	24
2019	Workshop on Latest Development in Automotive Technology with hands on training at MCKV VECV Centre	12/04/2019	12/04/2019	12/04/2019	17
2019	Organised summer training program on Automotive Electricals and Electronics for students of 2nd and 3rd year at MCKVBOSCH Joint certification Centre	18/06/2019	16/06/2019	28/06/2019	55
2019	Conducted training program for students of Department of Mechanical engineering, Govt. College of Engineering and Textile Technology, Berhampore at MCKVVECV training centre	30/04/2019	30/04/2019	30/04/2019	4
2018	Seminar (under QUEST) on Implementation of moodle - open source learning management system (LMS)	13/07/2018	13/07/2018	13/07/2018	6
2018	Workshop on Android Technology by Techtree Technologies organized by MCA dept	21/08/2018	21/08/2018	26/08/2018	33
2018	Workshop on MOOCs training under TEQIP, Phase III of Calcutta University at IGIT, Sarang delivered by Mr. Nilay Kr. Nag, Mr. Anjan Goswami and Ms. Nabamita Majumder	01/08/2018	01/08/2018	03/08/2018	38
2018	Workshop on Application of IOT: Geriatric Care at SIT, MCKV delivered by Dr. Sankhayan	27/09/2018	27/09/2018	27/09/2018	45

Choudhury, professor, CU.					
2018	Workshop on Application of Linux and Shell Programming delivered by Mr. Partha Pratim Saha, Mr. Anjan Goswami and Ms. Antara Sengupta	02/11/2018	02/11/2018	02/11/2018	11
2018	Workshop on Exploring SQL and PL/SQL on 5th Feb' 2019 delivered by Mr. Anjan Goswami, Mr. Arijit Bhattacharya, Mrs Arpita Dash (Dawn).	05/12/2018	05/12/2018	05/12/2018	26
2019	Workshop on Exploring SQL and PL/SQL' delivered by Mr. Anjan Goswami, Mr. Subir Bhadra, Mrs Antara Sengupta, Mrs Arpita Dash (Dawn).	06/03/2019	06/03/2019	06/03/2019	34
2019	Mr. Nilay Kumar Nag, Mr. Anjan Goswami, Ms. Nabamita Majumder and Ms. Arpita Dash (Dawn) were invited as resource persons for implementation of MOOC platform in Belur Vidyamandira on 2nd and 3rd May 2019. The participants were Professors of Belur Vidyamand	02/05/2019	02/05/2019	03/05/2019	22
2018	Brainrush 2K18	28/09/2018	28/09/2018	28/09/2018	93
2019	Quizzare 2019	12/04/2019	12/04/2019	12/04/2019	78
2019	KODIKAS 2K19	07/05/2019	07/05/2019	07/05/2019	39
2018	Seminar on Networking	10/09/2018	10/09/2018	10/09/2018	60
2018	Seminar on Database Management System	05/10/2018	05/10/2018	05/10/2018	65
2018	Workshop on Java Programming	03/12/2018	03/12/2018	05/12/2018	39
2019	Seminar on Engineering Education and its Future Prospect	16/01/2019	16/01/2019	16/01/2019	40
2018	IET sponsored Hands-on training on Electronic Circuit Design	04/08/2018	04/08/2018	06/08/2018	45
2018	Workshop on Elvert v2 and Xilinx Kintex 7 FPGA development board	05/08/2018	05/08/2018	25/09/2018	11
2018	Outreach program (Phase I) at M C Kejriwal Vidyapeeth, Liluah	10/10/2018	10/10/2018	11/10/2018	36
2018	IET (UK), Kolkata Local Network sponsored Students' Quiz competition INPULSA2K18	11/10/2018	11/10/2018	11/10/2018	141
2018	Outreach program (Phase II) at MCKVIE on "Hands-on Workshop on Basic Electronic Circuit"	22/11/2018	22/11/2018	22/11/2018	37
2018	Outreach program (Phase II) at MCKVIE on "Hands-on Workshop on Basic Electronic Circuit"	04/11/2018	04/11/2018	04/11/2018	41
2019	IEEE SSCS sponsored Workshop on Circuit Design using LTSpice	09/02/2019	09/02/2019	09/02/2019	33
2019	Workshop on Genesys 2 Kintex 7 FPGA development board	14/03/2019	14/03/2019	14/03/2019	11
2019	Installation of Centre of Excellence in Robotics followed by 3day Workshop in Robotics	04/04/2019	04/04/2019	06/04/2019	39
2019	IET (UK), Kolkata Local Network, sponsored Students' Technical Article Competition (PRAYAS2019)	27/04/2019	27/04/2019	27/04/2019	45
2019	IEEE SSCS sponsored One Day Seminar on Fabrication of Advanced MOSFETs and Recent Trends in VLSI Industry	02/05/2019	02/05/2019	02/05/2019	41
2019	Summer Training Program on System Design using Verilog and AVR ATMEGA microcontroller	19/06/2019	19/06/2019	17/07/2019	20
2018	Industry visit at Santaldih thermal power station	12/11/2018	12/11/2018	12/11/2018	44
2018	Seminar on Recent trends in power system operation and maintenance	28/09/2018	28/09/2018	28/09/2018	50
2019	"How to crack GATE in first attempt"	29/03/2019	29/03/2019	29/03/2019	32
2019	Industry visit at Bandel Thermal Power Station	16/03/2019	16/03/2019	16/03/2019	38
2019	Workshop on Introduction to industrial	28/02/2019	28/02/2019	28/02/2019	45

automation and IoT					
2018	Training program at L T Switchgear Training Centre, Kolkata	24/08/2018	24/08/2018	24/08/2018	10
2019	"Hands on Workshop on electric Circuit Design"	08/05/2019	08/05/2019	09/05/2019	55
2019	Seminar on "Data Analytics with AI": IE(I) Students' Chapter Annual Programme INFOTECHNIA 2K19	10/04/2019	10/04/2019	10/04/2019	45
2019	Seminar on "Angular JS and node JS"	25/02/2019	25/02/2019	25/02/2019	30
2019	FDP on "IOT In Healthcare Applications"	05/02/2019	05/02/2019	07/02/2019	60
2019	Seminar on "Block Chain"	07/01/2019	07/01/2019	07/01/2019	35
2019	Seminar on "Hyperledger"	07/01/2019	07/01/2019	07/01/2019	35
2018	Symposium on "Recent Trends in Computing: IoT and Robotics"	29/09/2018	29/09/2018	29/09/2018	36
2018	Invited Talk on "Cyber Security in Social life and Career prospects in the domain"	27/09/2018	27/09/2018	27/09/2018	60
2018	Invited Talk on "Evolution of Engg. Technology with Human Development"	13/09/2018	13/09/2018	13/09/2018	56
2018	Training on "Python Programming"	11/09/2018	11/09/2018	13/09/2018	34
2018	Training on "Video Editing"	24/07/2018	24/07/2018	06/08/2018	27
2018	Technical Grooming on "What IT Needs Today?"	16/08/2018	16/08/2018	16/08/2018	50
2018	Invited Talk on "Data Mining Issues for Current Social Media Trends"	13/08/2018	13/08/2018	13/08/2018	44
2018	Site visit at Johnson controls Hitachi Engineering Excellence Centre, Kolkata.	05/09/2018	05/09/2018	05/09/2018	4
2018	Site visit at Himadri Memorial Cancer Research Institute, Kolkata	15/09/2018	15/09/2018	15/09/2018	14
2019	Guest Lecture on Recent Trends in Industry Role of Fresh Engineers and Industry Expectations at MCKVIE	22/02/2019	22/02/2019	22/02/2019	60
2019	Industry Visitat RBA Ferro Alloys Ltd., Ankurhati.	08/04/2019	08/04/2019	10/04/2019	15
2019	Industry Visit at TEGA Industries Ltd., Samali Plant, Joka, Kolkata.	18/04/2019	18/04/2019	18/04/2019	12
2018	Technical Safety Awareness Training in collaboration with Praxair India Pvt. Ltd at MCKVIE	13/09/2018	13/09/2018	13/09/2018	40
2018	Organised one day Seminar on Electric Vehicle in association with SAE India	23/07/2018	23/07/2018	23/07/2018	103
2018	Organised World Photography Day celebration by MCKVIESAE photography club through Photography Exhibition cum competition and Expert lecture on Composition of photography	20/09/2018	20/09/2018	20/09/2018	40
2018	Organized Expert lecture on Smart Buildings and energy optimisation	30/07/2018	30/07/2018	30/07/2018	103
2018	Organized Expert lecture on Electric Bus	01/08/2018	01/08/2018	01/08/2018	40
2018	Organized Seminar on SOLID WORKS	24/08/2018	24/08/2018	24/08/2018	48
2018	Organized Awareness Programme on Entrepreneurship	24/08/2018	24/08/2018	24/08/2018	61
2018	Organsied seminar on Latest Technologies in Commercial Vehicle Industry	04/09/2018	04/09/2018	04/09/2018	69
2019	Organised Supra Technical Workshop in Association with SAE India	09/02/2019	09/02/2019	09/02/2019	50
2018	Organsied seminar on Effect of Consumer Behavior on Automotive Technology	03/11/2018	03/11/2018	03/11/2018	27

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CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 - Institutional Values and Social Responsibilities****7.1.1 - Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)**

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Online Selfi (with mother) contest was organized on the occasion of International Mother's Day	08/03/2019	08/03/2019	30	20
Celebrated women's day Athulya along with the elderly people of the Abakash old age home.	14/03/2019	14/03/2019	15	12
RAKSHA BANDHAN was celebrated with the threads of Rakhi tied on the hands of protectors at the Bally Fire station with the firemen and the Local Traffic Policemen and also with the children of Ghodamara Ashram in Rishra	27/08/2018	27/08/2018	20	5
Organized a programme namely, ASCENDIO towards women empowerment and entrepreneurship along with a Quiz Competition.	10/10/2018	12/10/2018	90	30

7.1.2 - Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:**Percentage of power requirement of the University met by the renewable energy sources**

WATER MANAGEMENT, ENERGY MANAGEMENT, GREEN CAMPUS, WASTE MANAGEMENT, CARBON FOOTPRINT Total energy consumed during AY: 201819 is 249952 Units (KWh) Energy generated through Solar Power Plant is 5475 Units (KWh) Percentage of power requirement of the University met by the renewable energy sources is 2.2

7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	0
Rest Rooms	Yes	1
Scribes for examination	No	0
Special skill development for differently abled students	No	0
Any other similar facility	No	0

7.1.4 - Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	30	30	02/07/2018	365	AGRASAR	To educate under privilege worker	25
2018	1	1	10/10/2018	3	ASCENDIO	Nurturing educating future entrepreneur	130
2018	1	1	29/07/2018	1	Green Hands	Plantation Awareness	30
2018	1	1	20/08/2018	1	Kerala Flood	To help the distress in flood	12
2018	1	1	27/08/2018	1	Raksha Bandhan	Spreading Love and peace	47
2018	1	1	05/11/2018	1	Diwali Celebration	Spreading love and	45

						affection	
2018	1	1	22/11/2018	1	Tobacco Awareness Camp	Awareness about the issues w.r.to Tobacco	115
2018	1	1	10/09/2018	1	Seminar on value education positive thinking	Values life thoughts of Swami Vivekananda	280
2019	1	1	25/06/2019	1	Seminar on value education positive thinking	Values life thoughts of Swami Vivekananda	280
2018	1	1	11/09/2018	1	Youth Convention	Youth Procession	70
2019	1	1	11/10/2018	30	Distribution towards Needy People	New Bag articles distribution	20
2019	1	1	15/06/2019	30	Summer Training at Eastern RailwayLiluah	NA	8
2019	1	1	15/06/2019	30	Summer Training at Hindalco Ltd, Belur	NA	1
2019	1	1	15/06/2019	30	Summer Training at Nipha Industries Ltd	NA	2
2019	1	1	15/06/2019	30	Summer Training at Nipha Industries Ltd	NA	2

7.1.5 - Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Concluding 125th Chicago Address of Swami Vivekananda as Devotee Convention at Belur Math, Head Quarter of Ramkrishna Mission	12/09/2018	12/09/2018	5
One Day Seminar on Value Education Positive Thinking	25/07/2018	25/07/2018	50
Birth Day Tithi Puja celebration of Sri Ramakrishna followed by Discourse	08/03/2019	08/03/2019	20
157th Birth Day Tithi Puja celebration of SwamiVivekananda followed by Discourse	27/01/2019	27/01/2019	20
Visit to Sister Nivedita Girls' School for Old Dresses Distribution towards 100 Needy People	22/11/2018	22/11/2018	5
Visit to Belghoria RKM for Article Distribution towards 70 Nos of Needy Children of Gadadhar Abhudaya Prakalpa	11/10/2018	11/10/2018	20
Students' and Faculty Staff members of MCKVIE attended a Youth Procession as a mark of Celebrating 125th Chicago Address of	10/09/2018	10/09/2018	45

Swami Vivekananda at Belur Math, Head Quarter of Ramkrishna Mission			
Students' and Faculty Staff members of MCKVIE attended 125th Chicago Address of Swami Vivekananda as Youth Devotee Convention at Belur Math, Head Quarter of Ramkrishna Mission	11/09/2018	11/09/2018	70
One Day Seminar on Value Education Positive Thinking	10/09/2018	10/09/2018	350

7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)

1) Provision of solar energy 2) Rain water harvesting 3) Establishment of Garden in the campus 4) Recycle or safely disposal of dry wastes, computers and electrical appliances. 5) Use of Sanitary napkin vending m/c 6) Conduct environmental awareness posters and seminars.

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

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. WiFi 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 ebooks and ejournals 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 201516 on the basis of students attendance and performance. c. 454 students successfully completed NPTEL courses during 201819. 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 ebooks 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 staff 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. Best Practice II 1. Title of the Practice One of the best practices followed by the institute is titled as 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 postgraduate 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 require mobilization of additional resources which is difficult in the given condition.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://www.mckvie.edu.in/site/assets/files/1945/best_practices_and_distinctiveness.pdf

7.3 - Institutional Distinctiveness

7.3.1 - Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Counseling And Guidance: The Institute has counseling and guidance cell available round the clock to the students who need psychological, social, personal and career counseling. Entrepreneur Development Cell: The Institute has established an Entrepreneur Development Cell in collaboration with National Entrepreneurship Network (NEN). The objectives of the cell to motivate, educate and help students to convert their ideas into business through product development. Swami Vivekananda Centre For Positive Thinking: The Institute has a Swami Vivekananda Centre for Positive Thinking helps students to develop morale values and positive attitude. Innovation Centre: To encourage entrepreneurship activities of the students an Innovation Cell under CII and Institutional Enterprniorship Development (IED) Cell has been formed under National Entrepreneurship Network (NEN). Rotaract Club: Rotaract Club of the Institute under the parent body Rotary Club of Mahanagar has been established, in addition to this an active cell of NSS is also present here. Technical Competition: The Technotica and TechFest were organized to encourage the activities pertaining to robotics and technical competition for MCKVIE students for both within and outside the campus.

Provide the weblink of the institution

http://www.mckvie.edu.in/site/assets/files/1945/best_practices_and_distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

Apart from improvements in the activities in regular areas, the institute has planned the following to further develop a system for conscious, consistent and catalytic action to enhance the academic and administrative performance of the institution. 1. To make the institute an "Autonomous Institute" and a "Centre of Excellence". 2. Expansion of the college in terms of increase in intake capacity of B.Tech. in Computer Science Engineering and Electronics Communication Engineering Programmes. 3. To introduce a new ERP system for digitization of Examination process, Finance management and other administrative activities. 4. To create a more students centric learning environment through experiential teachinglearning methods/ Peer Teaching Learning Practices/ ICT Tools. 5. To promote and sustain an environment that supports high quality RD activities of the members of faculty to improve the academic quality as well as to induct students in such RD activities 6. The institute planned to initiate the ReuseReduce solution for various processes aiming to move towards paperless office.