



Yearly Status Report - 2018-2019

Part A

Data of the Institution

| | | |
|---|--|-------------------------|
| 1. Name of the Institution | | IMS ENGINEERING COLLEGE |
| Name of the head of the Institution | | Dr. Sraban Mukherjee |
| Designation | | Director |
| Does the Institution function from own campus | | Yes |
| Phone no/Alternate Phone no. | | 01204940000 |
| Mobile no. | | 9821396584 |
| Registered Email | | imsec@imsec.ac.in |
| Alternate Email | | director@imsec.ac.in |
| Address | | NH-24, Adhyatmik Nagar, |
| City/Town | | Ghaziabad |
| State/UT | | Uttar pradesh |
| Pincode | | 201015 |
| 2. Institutional Status | | |

| | |
|--|--------------------------|
| Affiliated / Constituent | Affiliated |
| Type of Institution | Co-education |
| Location | Rural |
| Financial Status | private |
| Name of the IQAC co-ordinator/Director | Prof. Siva Prasad V.S.C. |
| Phone no/Alternate Phone no. | 01204940000 |
| Mobile no. | 8826279194 |
| Registered Email | imsec@imsec.ac.in |
| Alternate Email | director@imsec.ac.in |

3. Website Address

| | |
|--|---|
| Web-link of the AQAR: (Previous Academic Year) | http://imsec.ac.in/naac/iqac/IOAC-MOM.pdf |
| 4. Whether Academic Calendar prepared during the year | Yes |
| if yes,whether it is uploaded in the institutional website: Weblink : | http://www.imsec.ac.in/cal2010.pdf |

5. Accreditation Details

| Cycle | Grade | CGPA | Year of Accreditation | Validity | |
|-------|-------|------|-----------------------|-------------|-------------|
| | | | | Period From | Period To |
| 1 | B | 2.80 | 2009 | 30-Sep-2009 | 29-Sep-2014 |
| 2 | A | 3.04 | 2015 | 01-May-2015 | 30-Apr-2020 |

| | |
|---|-------------|
| 6. Date of Establishment of IQAC | 13-Apr-2012 |
|---|-------------|

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 |
| No Data Entered/Not Applicable!!! | | |
| No Files Uploaded !!! | | |

8. Provide the list of funds 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 |
|--------------------------------|--------|----------------|-----------------------------|--------|
| NIL | NIL | NIL | 2019 0 | 0 |
| No Files Uploaded !!! | | | | |

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

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

2

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)

Modification in Internal Sessional examination. Job/skill oriented training for 2nd 3rd year students.

No Files Uploaded !!!

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 |
|-----------------------|--|
| Research Publication | Faculty Publication: International Journals - 80 National Journal - 05 International Conference 03 National Conference - 21 Research Contribution 01 Book (authored) - 01 Book (edited) - 01 Book Chapter 07 Student Publication: International Journals - 61 National Conference - 24 |
| No Files Uploaded !!! | |

| | |
|---|--|
| 14. Whether AQAR was placed before statutory body ? | No |
| 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 | 27-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) | IMSEC has a well managed Management Information System to manage the information of the college in a systematic way. It contains the following modules: Academic, Account, Admission, Assignment, Hostel, Inventory, Library, Notes, Payroll Human Resource, Transport, Web. |

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

The institute has the mechanism for well planned curriculum delivery and documentation as described below: Quality Planning and Implementation of Teaching-Learning The institute is affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow. Curriculum is planned and decided by the University. However, curriculum delivery planning requires institute's efficiency. The planning and implementation are mentioned below: a. Academic Planning Allocation of subjects to faculty done based on their expertise and subject choices. • Academic calendar is defined in line with university calendar at the beginning of every semester. • Department Action Plan and review of previous semester: - Departmental meetings are held to discuss and action plan. - Academic responsibilities are allocated and process of implementation is discussed. - Monthly departmental meetings to monitor progress. - Course files are prepared in a pre-defined format. Contents beyond syllabus added to provide upgraded knowledge of subjects. - Value addition programs. • Collaborative Learning: - Fundamental and technical classes scheduled for one to two lectures per week. - Encouraging students for self-learning activities and develop small projects. • Learning through Project development and contests: - Final year project identification process initiated from 3rd year. - Continuous monitoring and evaluation is done on weekly basis. - Encouraging students for project contests and writing papers. b. Planning for

Classroom Teaching • Course Files are prepared including teaching plan, mapping of CO-PO and PSO, assignments, tutorial sheets/quiz, mini projects, lecture notes/PPTs, question bank. c. Planning for Laboratory Experiments Experiments are pre-planned in course files containing lab manuals, requirements and expected results. d. Effective content delivery - Use of projects/white board. - Use of quality reference material including online tutorials, PPTs, videos. - Coverage of content beyond syllabus. - Problem solving sessions. e. Monitoring and improvement of Teaching-Learning • Academic Monitoring - Facility of online reports in HOD's Login on college ERP including attendance, assignments, subject allocation, sessional marks report, letter to parents, student registration etc. - Monitoring overall student discipline - Regular meeting with Class Representatives - Issue of notices for short attendance and letter to parents about academic performance. - Overall monitoring of class by coordinators. - Random visits by Director, Deans to monitor classes. - Verbal feedback from students. - Analysis of course coverage. - Attendance on daily basis in registers and ERP. • Laboratory Monitoring - Lab manuals available in lab. - Performance evaluation through viva-voce and lab experiments. • Student Performance Monitoring - Analysis of students' performance in sessional exams. - Analysis of external university results and design strategy for improvement. - Regular analysis of class attendance. - Comparative analysis of student performance and discussion for improvement. • Bright Students - Top ranking students are awarded. - Top students work with weak students during team activities • Weak Students - Remedial classes for core subjects. - Tutorial classes for problem solving and creative thinking - Extra classes/time to students. • Personal Monitoring - One-to-one counselling sessions conducted.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

| Certificate | Diploma Courses | Dates of Introduction | Duration | Focus on employ ability/entrepreneurship | Skill Development |
|--|-----------------|-----------------------|----------|--|-------------------|
| Robotics Automation for B.Tech (ME)2nd year | 0 | 11/06/2018 | 26 | 0 | Skill development |
| Robotics Automation for B.Tech (ME)3rd year | 0 | 11/06/2018 | 40 | 0 | Skill development |
| "Project Development using Java" for students of B.Tech CS, IT and EC branches | 0 | 11/06/2019 | 45 | 0 | Skill development |
| "IBMBigData with Hadoop using Infosphere BigInsights" for CS IT students | 0 | 11/06/2018 | 30 | 0 | Skill development |
| Solar Training Program for ME2nd year | 0 | 11/06/2018 | 27 | 0 | Skill development |

| | | | | | |
|--|---|------------|----|---|-------------------|
| students | | | | | |
| Robotics Training Program | 0 | 04/06/2018 | 44 | 0 | Skill development |
| Summer Training in ABB Industrial Automation Centre | 0 | 10/06/2019 | 26 | 0 | Skill development |
| Summer Training in ABB Industrial Automation Centre | 0 | 08/07/2019 | 26 | 0 | Skill development |
| Advanced Industrial Automation Course in ABB Industrial Automation Centre | 0 | 24/09/2019 | 84 | 0 | Skill development |
| Red Hat Linux Admin Machine Learning using Python for IT 3rd year students | 0 | 12/06/2019 | 34 | 0 | Skill development |
| "Electronic Circuits: Design, Simulation Fabrication" for 1st year students at its Center of Excellence (Texas Instruments - Embedded Systems) | 0 | 06/06/2019 | 20 | 0 | Skill development |
| "VLSI Design" at its Centre of Excellence (VLSI Design Embedded System) for 3rd year | 0 | 11/06/2019 | 20 | 0 | Skill development |

| | | | | | |
|--|---|------------|----|---|----------------------|
| students | | | | | |
| "Fundamental s of Electrical Machines and Equipments" | 0 | 06/06/2019 | 20 | 0 | Skill development |
| "Fundamental s of Electrical Machines and Equipments" | 0 | 08/07/2019 | 20 | 0 | Skill development |
| Summer Training Programme in ABB Industrial Automation Centre (PLC/SCADA) for B.Tech3rd year students | 0 | 10/06/2019 | 26 | 0 | Skill development |
| Summer Training Programme in ABB Industrial Automation Centre (PLC/SCADA) for B.Tech3rd year students | 0 | 08/07/2019 | 26 | 0 | Skill development |
| Summer Training Program on Robotics | 0 | 17/06/2019 | 40 | 0 | Skill development |
| 'Handson Training in Molecular Biology Bioi nformatics' | 0 | 04/06/2019 | 32 | 0 | Skill development |
| "Rehhat Linux, Python Machine Learning" | 0 | 12/06/2019 | 34 | 0 | Skill development |
| "Competitive Learning (C Java) and Ap plications" | 0 | 03/06/2019 | 42 | 0 | Skill development |
| Summer | 0 | 10/06/2019 | 26 | 0 | Skill |

Training Program in ABB Industrial Automation Centre in two batches

development

Summer Training Program in ABB Industrial Automation Centre in two batches

0

08/07/2019

26

0

Skill development

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 !!! | | |
| | | |

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 |
|----------------------------------|-----------------------------|---|
| BTech | CSE, IT, EC, EN, ME, CE, BT | 02/07/2018 |
| Mtech | CSE, BT, ME, VLSI Design | 02/07/2018 |
| MBA | | 02/07/2018 |

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

| | Certificate | Diploma Course |
|--------------------|-------------|----------------|
| Number of Students | 442 | 0 |

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 |
|---|----------------------|-----------------------------|
| Summer Training in the area of Robotics Automation for B.Tech (ME) 2nd year | 11/06/2018 | 8 |
| Summer Training Programme on "Project Development using Java" for students of B.Tech CS, IT and EC branches | 11/06/2018 | 103 |
| Training Programme on "IBMBigData with Hadoop using Infosphere BigInsights" for CS IT students | 11/06/2018 | 18 |

| | | |
|--|------------|----|
| Summer Training Programme on 'Handson Training in Molecular Biology' for BT students | 04/06/2018 | 19 |
| Solar Training Program for ME2nd year students | 11/06/2018 | 11 |
| Summer Training in ABB Industrial Automation Centre | 11/06/2018 | 34 |
| Advanced Industrial Automation Course in ABB Industrial Automation Centre | 24/09/2018 | 12 |
| Summer Internship program on Red Hat Linux Admin Machine Learning using Python for IT 3rd year students | 12/06/2019 | 28 |
| Internship Program on "Electronic Circuits: Design, Simulation Fabrication" for 1st year students at its Center of Excellence (Texas Instruments - Embedded Systems) | 06/06/2019 | 12 |
| Internship Program in the field of "VLSI Design" at its Centre of Excellence (VLSI Design Embedded System) for 3rd year students | 11/06/2019 | 4 |
| Summer Internship Program on "Fundamentals of Electrical Machines and Equipments" | 06/06/2019 | 15 |
| Summer Training Programme in ABB Industrial Automation Centre (PLC/SCADA) for B.Tech3rd year | 10/06/2019 | 43 |
| Summer Training Program on Robotics | 17/06/2019 | 14 |
| Summer training entitled 'Handson Training in Molecular Biology Bioinformatics' | 04/06/2019 | 22 |
| Summer Internship Program on "Rehhat Linux, Python Machine Learning" | 12/06/2019 | 28 |
| Summer Internship Program on "Competitive Learning (C Java) and | 03/06/2019 | 40 |

| | | |
|--|------------|----|
| Applications" | | |
| Summer Training Program in ABB Industrial Automation Centre in two batches | 10/06/2019 | 43 |
| | | |

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 | CSE | 241 |
| BTech | IT | 105 |
| BTech | EC | 120 |
| BTech | EN | 98 |
| BTech | ME | 164 |
| BTech | CE | 55 |
| BTech | BT | 45 |
| | | |

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

| | |
|-----------|-----|
| Students | Yes |
| Teachers | |
| Employers | Yes |
| Alumni | Yes |
| Parents | |

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

| Feedback Obtained |
|---|
| <p>Feedback Collection A standard faculty feedback is collected from the students once in every semester, course wise/faculty wise. The institute has online faculty feedback collection system which consists of the following parameters: Lecture Delivery/Communication Understanding of subject Punctuality Regularity in class Timely Assignments given to the class Timely Assignments checked and shown to the class Feedback Analysis Process The feedback analysis is done online with software at the institutional level, subject wise/faculty and the report is generated. An average of all the parameters stated in the form, are taken and tabulated. Overall average score is calculated and status is assigned as Excellent, Very Good, Good, Average and Below Average. Feedback on facilities College has a standard 'Student Survey Form' to be filled in by the students of outgoing batch regarding facilities like laboratories, extracurricular activities, value added training, registrar and accounts office, hostel/mess, industry interaction, library, grievances, transportation and internet related issues. Feedback on basic amenities is also collected through Class Representative meetings. CR meetings are held once during the academic session by the Director. Feedback analysis The 'Student Survey Form' collected from the students, is analysed critically and quantitatively, based on the parameters stated above in the collection process. An example of survey of 66 students from different branches is shown below: IMS Engineering College,</p> |

Ghaziabad Students Feedback analysis report - Points of (201718) S.No. Concern Areas Satisfied Neutral Dissatisfied 1 Canteen Facilities 19.40 47.76 32.84 2 Cleanliness in the hostel campus 74.58 32.20 30.51 3 Classroom infrastructure 20.90 52.24 26.87 Summary - According to the analysis report, out 35 parameters, approximately 30 students wanted more improvement in 3 areas, namely Canteen facilities, Cleanliness in hostel and Classroom infrastructure. Corrective actions Corrective measures are taken by the Head of the Institute. Given below are the major areas of concern with their corrective actions: 1) Concern area - Canteen Facilities Action taken: The information was passed on to the authorities for necessary actions. 2) Concern area - Cleanliness in the hostel campus Action taken: The information was passed on to the hostel warden for necessary action. 3) Concern area - Classroom infrastructure Action taken: All classrooms are now fitted with AC and wall mounted projector.

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 | CS, IT, EC, EN, ME, CE, BT | 900 | 1563 | 605 |
| MBA | MBA | 60 | 166 | 58 |
| Mtech | CSE, ME, BT, VLSI Design | 72 | 10 | 3 |

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 | 2741 | 105 | 179 | 19 | 7 |

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 | Numberof smart classrooms | E-resources and techniques used |
|----------------------------|---|-----------------------------------|----------------------------------|---------------------------|---------------------------------|
| 198 | 163 | 54 | 54 | 0 | 15 |

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

Students Mentoring System The College has a welldefined mentoring system to support students of all categories for professional guidance, career advancement and individual personal problems affecting his/her performance. Specially designed and printed counsellor cards to record and monitor the complete academic progress of students is in use. It brings out the reasons of personality, irregularity and academic related problems

of the students. Groups of students (batch wise) are distributed among faculty members expert in counselling, with the consent of HOD. The mentoring process helps in 1. Understanding the family and academic background of student through one to one meetings. 2. Understanding the problems they face due to change of residential place as well as areas in which the student needs motivation and guidance. 3. Monitoring their academic progress and daily attendance on records. It helps in understanding the student in a better way. 4. Ensuring extra academic help by mutual verbal agreement with related subject teachers. 5. Sharing the academic progress with parents telephonically and through mail. 6. Counselling done for all the necessary actions towards skill development of students at personal level. 7. Encouraging the students to attend PDP (Personality Development Program) for their allround development. 8. Motivating students to appear for competitive exams of their interest and to identify the program and institutions where they can apply for a higher education. 9. Solving course work specific problems by guiding the students to take notes, previous year question papers and remedial classes from the concerned teacher. For laboratory specific problems, they are asked to repeat the experiment in the presence of teacher. Motivating students to appear for competitive exams of their interest and to identify the program and institutions where they can apply for a higher education. 10. Solving course work specific problems by guiding the students to take notes, previous year question papers and remedial classes from the concerned teacher. For laboratory specific problems, they are asked to repeat the experiment in the presence of teacher. The efficacy of mentoring system is analysed in terms of student's performance in sessional and pre university test.

| | | |
|--|-----------------------------|-----------------------|
| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
| 2846 | 198 | 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 |
|-----------------------------|-------------------------|------------------|--|--------------------------|
| 194 | 13 | 16 | 13 | 5 |

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 |
|---|---|-------------|--|
| No Data Entered/Not Applicable !!! | | | |

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 | B.Tech | Odd Semester | 05/01/2019 | 05/02/2019 |
| BTech | B.Tech | Even Semester | 07/06/2019 | 26/06/2019 |
| MBA | MBA | Odd Semester | 05/01/2019 | 26/02/2019 |
| MBA | MBA | Even Semester | 25/05/2019 | 29/06/2019 |
| Mtech | M.Tech | Odd Semester | 02/02/2019 | 07/03/2019 |
| Mtech | M.Tech | Even Semester | 04/04/2019 | 05/08/2019 |

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

Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level Question papers, assignments/quizzes are prepared for all internal assessments including sessional exams, internal viva voce for laboratories by respective faculties. A. Initiatives Following initiatives have been devised at department level to prepare quality assignments for all internal assignments: Discussions on quality of assignments / quizzes / mini projects Reference to old question paper/standard books Use of Lab Manual Content beyond syllabus B. Implementation Details Question papers (Sessional Exam): Question paper is prepared by individual faculty. Quality of question papers are checked and final question paper is approved by HODs. Common papers are approved by Dean (Academic). Student assignments: Assignments are allocated on weekly basis. Students can download/view their assignment on portal. Question banks are given to students by subject expert. C. Evaluation and Analysis Students assignments Assignments are marked on portal. Summary report of submitted and marked assignment is available in Director/Dean and HOD login. Sample copies of checked assignments are analyzed by HOD. Question papers (Sessional Exam) Answer sheets are cross evaluated. Sessional result analysis is discussed at HOD and Director level A comparative evaluation of student's performance is carried out. Laboratory assignments Viva voce based evaluation.

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

Academic Calendar: The college prepares a well organized Academic Calendar and adheres to it. The Academic Calendar of the college is prepared in the line with university calendar the college is affiliated to. The Academic Calendar is prepared semesterwise. The Academic Calendar is very well defined and it includes all important academic and administrative programmes of the college like commencement of classes, number of teaching days, dates of Class Tests, dates of assignments, date of Preuniversity test, dates of important functions/ programmes the college would be organizing during the semester, list of holidays, tentative date/month of university examinations. The Academic Calendar of the college is uploaded on the college website and remains available there for the whole semester. The academic programmes of the college are strictly adhered to this Academic Calendar. Preparation of the Academic Calendar helps very much in streamlining the academic programmes and implementation of the same in a systematic way. All internal Tests and examinations are conducted strictly according to the Academic Calendar. It is really very helpful to the faculty as well as to the students in preplanning of their academic work and preparation of the same in an organized way. It presents a preview of the whole semester to the faculty and students.

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)

[NIL](#)

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 |
|----------------|----------------|--------------------------|---|---|-----------------|
| | BTech | | 828 | 774 | 93.48 |
| | MBA | | 44 | 34 | 77.27 |

| | | | | | |
|--|-------|--|---|---|-----|
| | Mtech | | 1 | 1 | 100 |
|--|-------|--|---|---|-----|

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)

| |
|------------|
| <u>Nil</u> |
|------------|

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 | 3 | SERB (Science Engineering Research Board), New Delhi | 15 | 2.75 |

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 |
|---|-------------------|------------|
| National Seminar on Recent Advances on Computer Vision And Image Processing | CSE Department | 28/07/2018 |
| Workshop on Digital Marketing | CSE Department | 29/09/2018 |
| Startup Conclave | MBA Department | 24/11/2018 |
| Workshop on 'Blockchain and its Applications' | EC Department | 08/02/2019 |
| Workshop on Machine learning with Python | CSE Department | 09/02/2019 |
| Workshop on Java and Web Development | CSE Department | 09/02/2019 |
| Workshop on "Machine Learning" | EN Department | 12/02/2019 |
| Round Table Discussion | CE Department | 21/02/2019 |
| Workshop on Profile Building CV Analysis | EN Department | 11/03/2019 |
| CII MAJESTIC: SKILL WILL LEAD program | ME Department | 04/04/2019 |
| Seminar on "Cyber Crimes and Issues of Cyber Security" | IT Department | 09/04/2019 |

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 |
|---|--|---|---------------|--|
| "ENtron" | Mr. Himanshu Prajapati, Mr. Priyanshu Chauhan, Mr. Saurabh Shukla, Mr. Pratik Mishra, Mr. Shivam Mishra, ENFinal year students | CROSSROADS 2018 (Techfest) at HITECH Engineering College, Ghaziabad | 02/11/2018 | 3rd Prize |
| "Spy Spider" | Mr. Rohan Jain, Mr. Prashant Kr. Gupta, ENfinal year | CROSSROADS 2018 (Techfest) at HITECH Engineering College, Ghaziabad | 02/11/2018 | Consolation Prize |
| "Solar Refrigerator" | Mr. Abhishek Pandey, Mr. Abhishek Yadav, ENfinal year students | ANVESHANA Science Engineering Fair held at National Science Centre, New Delhi | 22/01/2019 | Consolation prize with cash prize of Rs.5,000/ |
| presentation on Drilling, Tapping, Boring Machines: Types and Parts | Mr. Abhishek Maurya, Mr. Ashish Ranjan Sarkar, Mr. Anuj Kumar, Mr. Harshit Raghuvanshi, ME3rd year | First phase of CII MAJESTIC: SKILL WILL LEAD program at KIET Ghaziabad | 04/04/2019 | 3rd Rank (Cash prize of Rs.10,000/) |
| presentation on the topic Engineered SystemsAGVS, Conveyor Systems, Robotic Delivery System | Mr. Tarun Tyagi, Mr. Ujjawal Rai, MR. Ujjval Saini, Mr. Yuvraj Rai, ME3rd year | Third phase of CII MAJESTIC: SKILL WILL LEAD program at ABESEC, Ghaziabad | 05/04/2019 | 3rd Rank (Cash prize of Rs.5,000/) |
| MARS ROVER | Mr. Satyam Pratap Singh team | Kalam Centre for Inovation Incubation of Startups (of Dr. A.P.J. Abdul Kalam Technical University, Lucknow, U.P.) | 12/09/2018 | Selected as finalist for UKCA Mars Mission under the collaboration of the University of Edinburgh in Scotland to participate in MINAR project held at Whitby, Yorkshire by University of |

| | | | | |
|---|--|--|------------|---|
| | | | | Edinburgh, U.K. and granted Rs.12,000/ to develop the prototype. |
| MARS ROVER | Mr. Satyam Pratap Singh, Ms. Haritima Chaturvedi, Ms. Roli Singh, Mr. Gaurav Singh and Mr. Shubham Choudhary | UKCA Mars Mission under the collaboration of the University of Edinburgh in Scotland | 10/02/2019 | Participated in MINAR project held at Whitby, Yorkshire by University of Edinburgh, U.K. which involved scientific collaboration and technology testing at the Boulby Mine. |
| MARS ROVER | Satyam Pratap Singh team | U.P. Govt.: Shri Aditya Nath Yogi, Hon'ble Chief Minister, Uttar Pradesh | 22/02/2019 | Felicitated and awarded letter of appreciation for their Project MARS Mission. |
| Smart Odisha2018 Hackathon | Mr. Chakshu Sharma, CSIV year, Ms. Astha Singh, Ms. Deepali Srivastava, Ms. Medha Gupta, CSIII year | Govt. of Odisha: Hon'ble Chief Minister of Odisha, Shri Naveen Patnaik | 13/11/2018 | won overall 1st Prize and got Rs.1.25 Lakh cash prize |
| Regional Convention of 2nd AICTEECIISTE Chhatra Vishwakarma Awards 2018 | Group of students of ECE IT branch | held at PSIT, Kanpur | 26/11/2018 | won 1st Prize |
| Prediction analysis of air pollution level using machine learning | Harshit Saran, Maghvendra Singh, Manvir Singh Raja | Council of Science and Technology UP Section | 17/12/2018 | Selected for funding of Rs. 20,000/ |
| Integrated Conference on AYUSH, Agriculture Pharmacy (ICAAP2018) | Ms. Chhavi, Ms. Riya, BT - final year | Namo Gange Trust and Lovely Professional University, Phagwara, Punjab | 13/10/2018 | 1st Prize in poster presentation |
| "SPY SPIDER" in SPEED 2018 | Mr. Rohan Jain Mr. Prashant Kumar Gupta, ENFinal Year | G.D. Goenka University, Gurugram | 24/10/2018 | Best Innovation Project award cash prize of Rs.5000/ |

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|--|--|---|------------|---|
| "Hybrid Bicycle" | Mr. Muhammad Ahmad, Mr. Abhinav Biswas, Mr. Aman Singh and Mr. Mirza Suhaib Beg, ME2nd Year | SAE India at KIET Ghaziabad | 01/11/2018 | 1st Prize along with cash prize of Rs.4000/ |
| "INNOVISION: Visualizing the Digital World" | Mr. Suraj Kumar Jaiswal, Mr. Utkarsh Upadhyay, Mr. Upendra Singh and Mr. Kushagra Srivastava, CSE2nd year | INNOTECH 2K18 (Student Project exhibition) organized at KIET, Ghaziabad | 03/11/2018 | 3rd Prize with Cash Prize of Rs.2000/ |
| "Automatic Dish Washer" | Mr. Rohit Saraswat, Mr. Rahul Tanwar, Mr. Prince Mishra, Mr. Prateek Kumar Royal and Mr. Shivam Kumar, ME - Final year | CROSSROADS 2018 (Techfest) at HITECH Engineering College, Ghaziabad | 02/11/2018 | 2nd Prize with Cash Prize of Rs.2,000/ |
| "Four Wheel Hydraulic Jack with Master Cylinder" | Mr. Bharat Sharma, Mr. Akash Kumar, Mr. Jaiprakash, Mr. Ashish Kumar and Mr. Gaurav Kumar, ME - Final year | CROSSROADS 2018 (Techfest) at HITECH Engineering College, Ghaziabad | 02/11/2018 | 3rd Prize with a Cash Prize of Rs.1,500/ |

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 !!! | | | | | |

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

| State | National | International |
|----------|----------|---------------|
| 0 | 0 | 0 |

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

| Name of the Department | Number of PhD's Awarded |
|------------------------|-------------------------|
| EC | 2 |
| ME | 1 |
| CSE | 1 |
| BT | 1 |

| | |
|-----|---|
| ASH | 1 |
|-----|---|

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 | EC | 6 | 0.18 |
| International | CS | 18 | 3.05 |
| International | ME | 2 | 3.35 |
| International | ASH | 4 | 1.17 |
| International | BT | 6 | 0 |
| International | EN | 22 | 0 |
| International | IT | 1 | 0 |
| International | MBA | 3 | 0 |
| National | EC | 2 | 0 |
| National | BT | 2 | 3.38 |
| National | ME | 1 | 0 |

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 |
|------------|-----------------------|
| ME | 1 |
| BT | 7 |
| MBA | 1 |
| CS | 18 |
| EN | 2 |
| IT | 3 |

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 |
|--|----------------------------------|--------------------------------------|---------------------|----------------|---|---|
| Psychosis and Sophistication in Doris Lessing's Ben in the World | Dr Arvind Kumar Sharma | Global Journal for Research Analysis | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Studies on agarolytic bacterial isolates from agricultural | Shomini Parashar, Narendra Kumar | Iranian Journal of Microbiology | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|--|---|--|------|---|------------------------------------|---|
| and industrial soil | | | | | | |
| Virtual screening and docking of lead like molecules against Glutathione S Transferase protein from <i>Brugia malayi</i> | Siva Prasad Venkata Satya Chekkara and Priya Ranjan Kumar | Bioinformatics | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Insilico Modeling of Helicobacter armegera Aminopeptidase N Docking Studies with <i>Bacillus thuringiensis</i> Cry1Ac Toxin | Siva Prasad Venkata Satya Chekkara and Priya Ranjan Kumar | Vivechan International Journal of Research | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Glucose Monitoring Technologies and Challenges: An Update | Deepali Bisht, Vedika Yadav, Rajsi, Panchali Saha, Narendra Kumar | International Journal of Biotechnology | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Fabrication of polyaniline/activated carbon composite and its testing for methyl orange removal: Optimization, equilibrium, isotherm and kinetic | Narendra Kumar | Polymer Testing | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|---|---|---|------|---|------------------------------------|---|
| study | | | | | | |
| Cloning and in silico characterization of Heat shock factor (Hsf) from Wheat (<i>Triticum aestivum</i> L.). | Narendra Kumar | Research Journal of Biotechnology | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Phytochemical screening and detection of antimicrobial activities of medicinal plants : Dalbergia sissoo (Sheesham), Plumeria rubra (Gulchi) and Solanum nigrum (Makoi) | Rashmi Chandra | International Journal of Management , IT Engineering | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Tuberculosis: A Comprehensive Study On Its Evolution, Variants, Causes And Treatment Related Challenges | Priyaranjan Kumar | Biosciences Biotechnology Research Communication (BBRC) | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Growth of Rayleigh instability in a Hall thruster channel having dust in exit region | H. K. Malik, Jasvendra Tyagi, and D. Sharma | AIP Advances | 2019 | 0 | IIT Delhi | 0 |
| Discussion | Jasvendra | Journal of | 2018 | 0 | IIT Delhi | 0 |

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|---|-------------------------------|--|------|---|------------------------------------|---|
| on Rayleigh equation obtained for a Hall thruster plasma with dust | Tyagi, D. Sharma, H. K. Malik | Theoretical and Applied Physics | | | | |
| A Pharmaceutical Inventory Model for Varying Deteriorating Items with Price Sensitive Demand and Partial Backlogging Under the Effect of Learning. | Mohit Rastogi, S. R. Singh | International Journal of Appl. Comput. Math | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| An inventory system for varying deteriorating pharmaceutical items with price sensitive demand and variable holding cost under partial backlogging in healthcare industries | Mohit Rastogi, S. R. Singh | Sadhana (Indian Academy of Sciences) | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| An Efficient Identity Based Generalized Signature Scheme In Standard Model | Tej Singh Rashid Ali | International Journal of Research and Analytical Reviews (IJRAR) | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| An Identity based Multireceiver Generalize | Tej Singh Rashid Ali | Asian Journal of Applied Sciences | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|--|--------------------------------|--|------|-------|------------------------------------|---|
| d Signcryption Scheme | | | | | | |
| Individual Personal Financial Planning: A Study of NCR | Dr Meenu Baliyan Punjika Rathi | Vivechan International Journal of Research | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| SMART HR: A STUDY ON ITS IMPLICATIONS AND PREDICTIONS | Tomer Arunima Sirohi | International Journal of Research and Analytical Reviews (IJRAR) | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Activity Assessment of Small Molecules in Estrogen Receptor using Multilevel Prediction Model | Vishan Kumar Gupta | IET System Biology, 13(3): 147158, 2019 | 2019 | 1.392 | IMS Engineering College, Ghaziabad | 0 |
| Toxicity prediction of small drug molecules of aryl hydrocarbon receptor using proposed ensemble model | Vishan Kumar Gupta | Turkish Journal of Electrical Engineering and Computer Science, 27(4): 28332849, 2019. | 2019 | 0.625 | IMS Engineering College, Ghaziabad | 0 |
| Toxicity prediction of small drug molecules of androgen receptor using multilevel ensemble model | Vishan Kumar Gupta | Journal of Bioinformatics and Computational Biology, World Scientific Publishers, 2019 | 2019 | 0.991 | IMS Engineering College, Ghaziabad | 0 |
| Subnet Based Ad Hoc Network | Pankaj Aggarwal | International Journal of Applied En | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|--|---|---|------|---|------------------------------------|---|
| Algorithm Reducing Energy Consumption in MANET | | gineering Research | | | | |
| Prediction of Secondary Structure of Proteins by using Backpropagation and Sliding window for Error Minimization | Shivani Agarwal, Pankaj Aggarwal | Springer book series, 2018 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Secure and Efficient Routing Protocol for MANET | Kaushal Kishore, Pankaj Aggarwal | Indian Journal of Public Health Research Development | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| By using MADALINE learning with back propagation and Keras to predict the protein Secondary Structure | Shivani Agarwal, Dr. Pankaj Aggarwal | International Journal of Recent Technology and Engineering (IJRTE), RACCCS 2019 | 2019 | 0 | IMS Engineering College, Ghaziabad | 8 |
| Prediction of Secondary Structure of Proteins Using Sliding Window and Backpropagation Algorithm | Shivani Agarwal, Vijander Singh, Pankaj Agarwal | Applications of Artificial Intelligence Techniques in Engineering | 2019 | 0 | IMS Engineering College, Ghaziabad | 7 |
| Comparative Performance of the Various Control Techniques to | Rajeev Kumar Chauhan, Jai Prakash Pandey and Mashhood Hasan | Springer Lecture Notes in Electrical Engineering, | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|---|---|---|------|---|------------------------------------|---|
| Mitigate the Power Quality Events Using UPQC". | | | | | | |
| "Intelligent Control Model to Enhance the Performance of Unified Power Quality Conditioner" | Rajeev Kumar Chauhan, Jai Prakash Pandey and Mashhood Hasan | Journal of Intelligent and Fuzzy Systems | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| "A Hybrid Control Algorithm for Extraction of Voltage Harmonics to Mitigate Power Quality Problems Using UPQC". | Rajeev Kumar Chauhan, Jai Prakash Pandey and Mashhood Hasan | Springer Lecture Notes in Electrical Engineering | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Bearing Fault Detection Using Logarithmic Wavelet Packet Transform and Support Vector Machine | Om Prakash Yadav, G L Pahuja, | International Journal of Image, Graphics and Signal Processing (IJIGSP) | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| "Effectiveness of Statistical Time Domain Method in Analyzing Bearing Defect" | Om Prakash Yadav, G L Pahuja, | Springer Lecture Notes in Electrical Engineering | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| A hybrid SVMNARX based prediction method for | Vijay Kumar, Yash Pal and MM Tripathi | Journal of Statistics Management Systems | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|--|--|--|------|-------|--|---|
| Indian wind power" | | | | | | |
| PSO Tuned ANN based Prediction Technique for Penetration of wind power in Grid | Vijay Kumar, Yash Pal and MM Tripathi | Springer Lecture Notes in Electrical Engineering | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Investigation on material mixing during FSW of AA7475 to AISI304 | Dr. Pankul Goel | Materials and Manufacturing Processes | 2018 | 1 | IMS Engineering College, Ghaziabad | 1 |
| Over Speeding Detection And Control | Archit Chaturvedi, Ayush Kaushik, Saurabh Kumar Singh Shivansh Srivastava | International Journal Science Research Development | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Performance analysis of high gain beamforming conformal array for avionic applications | R.N. BARAL | International Journal of Systems, Control and Communications | 2018 | 0 | IMS Engineering College, Ghaziabad | 6 |
| Circuit theory analysis of aperture coupled patch antenna for wireless communication | Ashish Singh, Mohammad Aneesh, Kumari Kamakshi, J. A. Ansari, | Radioelectronics and Communications Systems | 2018 | 0 | IMS Engineering College, Ghaziabad | 2 |
| Performance evaluation of QAM for improvement of BER | Balwant Singh ¹ , Vinod Shokeen ² , Rishi Asthana ³ | Wireless Personal Communications | 2019 | 0.929 | 1. Department of ECEASET (AMITY University) Noida, India 2. Amity School of | 0 |

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|---|--|--|------|---|---|---|
| | | | | | Engineering Noida, India 3.IMS Engi neering Co llegeGhazi abadIndia | |
| Metamateri al based circularly polarized hexaband patch antenna with small frequency ratios for multiple wireless a pplication s | P. Chaurasia | Journal of Electromag netic Waves and Applicatio ns | 2019 | 0 | Indian Institute of Technology (Indian School of Mines), Dhanbad | 0 |
| Design and analysis of sevenba ndsslotant enna with small frequency ratio for different wireless a pplication s | P. Chaurasia | AEU Intern ational Journal of Electronic s and Comm unications | 2019 | 0 | Indian Institute of Technology (Indian School of Mines), Dhanbad | 0 |
| Thermal Stability Analysis and Perfor mance Expl oration of Asymmetric al Dualk underlap Spacer (ADKUS) SOI FinFET for High P erformance Circuit Ap plications | Neeraj Jain and Balwinder Raj | Indian Journal of Pure Applied Physics, New Delhi | 2019 | 0 | National Institute of Technol ogy, Jalandhar, Punjab, India | 0 |
| Dualk Spacer Region Variation at the Drain Side of | Neeraj Jain and Balwinder Raj | Journal of Nanoelectr o nics and Optoelectr o nics, Ca lifornia, USA | 2019 | 0 | National Institute of Technol ogy, Jalandhar, Punjab, India | 0 |

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|--|---|--|------|---|--|---|
| Asymmetric SOI FinFET Structure: Performance Analysis towards the Analog/RF Design Applications | | | | | | |
| Analysis and Performance Exploration of High Performance (HfO ₂) SOI FinFETs Over the Conventional (Si ₃ N ₄) SOI FinFET towards Analog/RF Design | Neeraj Jain and Balwinder Raj | Journal of Semiconductors, China | 2018 | 0 | National Institute of Technology, Jalandhar, Punjab, India | 0 |
| Pentaband microstrip patch antenna with small frequency ratios using metamaterial for wireless applications | Chaurasia, Praveen, Kanaujia, B., Dwari, S., Khandelwal, M. | International Journal of Microwave and Wireless Technologies | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Pulse Shape Optimization for Physical layer UWB Communication and Performance Evaluation in Saleh - Valenzuela Channel IEEE 802.15.3a | Sharma, Abhishek., Sharma, S. Kumar | AEU the International Journal of Electronics and Communication, Elsevier | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Classification of cardiac | Singh, Ram Sewak., Singh, B., | International Journal | 2018 | 0 | IMS Engineering College, | 0 |

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|--|---|---|------|---|------------------------------------|---|
| heart disease using reduced chaos features and lnorm linear programming extreme learning machine | Sunkaria, R. | for Multiscale Computational Engineering | | | Ghaziabad | |
| Sales Data Prediction System | Srivastava, Adarsh., Jha, Amrit Kumar., Gupta, Vishan | International Research Journal of Engineering And Technology | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Software For Intelligent Automatic Washing Machine | Srivastava, Parimal., Tyagi, Prabhanshu., Tomar, Pragya., Sardana, Anjali | International Research Journal of Engineering And Technology | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| IOT Based Air And Sound Pollution Monitoring System | Sharma, Ashutosh, Varshney, Vaishnavi, Maheshwari, Roopank, Pandey, Upasana | International Research Journal of Engineering And Technology | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Google Maps Based Trending Decision | Upadhyay, Anuj., Dikshit, Ashu., Mishra, Anurag | International of Journal of Advance Research Ideas And Innovation Technology, Volume 4, Issue 2 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Specialized Data Analysis of Stack Overflow | Abhishek, Tyagi, Akash., Tiwari, Agam,, Jain, Vivek | International Journal of Advance Research Idea And Innovation in Technology | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|--|--|---|------|---|------------------------------------|---|
| ReEvaluating The Parameters For Finding Research Impact | Garg, Rajat., Agarwal, Pankaj | International Research Journal of Engineering And Technology | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Image Forgery Detection | Kumari, Annu., Gupta, Charchit., Gupta, Avdhesh | International Journal For Scientific Research Development , Volume 6, Issue 3 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Offline Handwriting Recognition Using Neural Networks | Sharma, Nitin., Agrawal, Pranshu., Pandey, Upasana | International Journal of Advance Research, Ideas And Innovations In Technology | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| GA NFIS Based Prediction Method for Wind Speed and Power in Sustainable Electricity Generation | Kumar Vijay | International Journal of Recent Technology and Engineering (IJRTE), SCOPUS INDEXED. | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Microstrip Line Low Pass Filters Based on Metamaterial Component | Singh Navita, Baral R.N., Kumar Arun | UGC Approved IOSR Journal of Engineering (IOSRJEN), Vol. 09, Issue 1 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Effectiveness of Statistical Time Domain Method in Analyzing Bearing Defect | Yadav Om Prakesh | Springers Lecture Notes in Electrical Engineering (LNEE) series which is indexed in ISI Proceedings, SCOPUS | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|---|--|--|------|---|------------------------------------|---|
| Individual Personal Financial Planning: A Study of National capital Region (NCR) | Baliyan Meenu, Rathi Punjika | Vivechan International Journal of Research, Vol. 9, Issue 2, pp. 4651 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Creating Agricultural Climatic Condition | Bhardwaj Tushar, Kushwaha Rakesh Kumar, Tiwari Vikas, Jaiswal Vishal Kumar, Patel Prashant (EN) Prof. Saroj Kumar Bhardwaj Tushar, Kushwaha Rakesh Kumar, Tiwari Vikas, Jaiswal Vishal Kumar, Patel Prashant (EN) Prof. Saroj Kumar | International Journal of Advance Research and Development, Vol. 4, Issue 3 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Spectral efficient pulse shape design for UWB communication with reduced ringing effect and performance evaluation for IEEE 802.15.4a channel | Sharma Abhishek, Sharma K. Sanjay | Wireless Network, Springer | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| PLC Based Liquid | Anurag Yadav, | International | 2018 | 0 | IMS Engineering | 0 |

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|--|---|---|------|---|------------------------------------|---|
| Mixing Filling System | Deepak Kumar Kushwaha, Md. Sameer, Mukesh Kumar Mandal, Nitish Kumar Yadav (ENIV year) Prof Mayank agarwal | Journal for Scientific Research and Development, Vol. 7, Issue 2 | | | College, Ghaziabad | |
| Spider Robot An Eight Leg Walking Robot | Rohan Jain, Prashant Gupta, Shray Tyagi, Dikshant Dixit, Rahul Chaurasia, Prof. Annu Govind | International Journal for Research in Applied Science Engineering Technology (IJRASET), Vol. 7, Issue 4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Adhar Based eRVM (electronic Ration Vending Machine) | Aditya Singh, Ashwarya Jaiswal, Anuj Kumar Maurya, Devendra Pratap Singh, Nirpesh Chaurasia, Prof. Mayank Agarwal Prof. Vijay Kumar | International Journal for Research and Development in Technology, Vol. 11, Issue 4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Gesture Controlled Vehicle for Military Purpose | Priyanka Teotia, Abhishek Srivastav, Nikhil Vars hney, Juli Kananujia, Archil Singh Prof. Rajkumar Singh | International Journal of Advance Research Development, Vol. 4, Issue 4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|--------------------------------|--|--|------|---|------------------------------------|---|
| Metal Non Metal Sorting | Akash Kumar, Vikas Kumar Singh, Himanshu Gautam, Sumanth Kumar, Rakesh Kumar Prof. Snigdha Chaturvedi | International Journal of Advance Research Development, Vol. 4, Issue 4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Solar Refrigeration | Abhishek Pandey, Abhishek Yadav Ankesh Chaturvedi Kailash Chaurasia, Harshit Srivastava Prof Atul Kumar Kushwaha | International Journal for Scientific Research and Development, Vol. 7, Issue 2 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Smart Glove for Deaf and Dumb | Khushbu, Priyesh Ranjan, Pushp Raj Singh, Roshani Maurya, Tanu Mishra Prof Atul Kumar Kushwaha | International Journal for Scientific Research and Development, Vol. 7, Issue 2 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Society Harnessing Equipment | Aditi Singh, Pooja Kumari, Charu Sisiudia, Alok Baghel, Ashish Kumar Singh Prof Sulekha Saxena | International Journal for Scientific Research and Development, Vol. 7, Issue 2 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| ENTRON A Hand Gesture Operated | Shivam Mishra, Himanshu Prajapati, | International Journal for | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|---|---|--|------|---|------------------------------------|---|
| Unmanned Battlefield Bot | Saurabh Shuklas, Prateek Mishra, Priyanshu Chauhan Prof Sulekha Saxena | Research in Applied Science Engineering Technology (IJRASET), Vol. 7, Issue 4 | | | | |
| Automatic Wheelchair | Prashant Kumar,, Rishabh Gupta, Vibhuti Kumar Singh, Umang Kumar Rai Prof Varun Kumar Singhal | International Journal for Research and Development in Technology, Vol. 11, Issue 4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Modern Irrigation System using Sustainable Energy | Kshitij Singh, Jitendra Singh Negi, Himanshu Verma, Akash Gupta, Mukul Kumar Tyagi Prof Varun Kumar Singhal | International Journal for Research and Development in Technology, Vol. 11, Issue 4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Air Pollution Monitoring Control | Jatin Kumar, Deepak Kumar, Ashish Tripathi, Ashish Sundriyal, Deepanshu Chaudhary Prof Sameer Anand | International Journal for Research and Development in Technology, Vol. 11, Issue 4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| CFE Free Refrigerator | Vaibhav Sahu, Vivek Kumar Mandal, Utkarsh Tyagi, | International Journal for Research and Development in T | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|--|---|--|------|---|--|---|
| | Vishal Patel, Raja Babu Prof. R.K. Chauhan | Technology, Vol. 11, Issue 4 | | | | |
| ROBOK9: Master (Mars Automated System the Explorer ROBO) | Satyam Pratap Singh, Shubham Choudhary. Gaurav Singh, Roli Singh, Haritima Chaturvedi Prof R.K. Chauhan | International Journal for Research and Development in Technology, Vol. 11, Issue 4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Obstacle Avoidance Robot using Ultrasonic Sensors | Lalit Rana, Arun Rati, Manish Kumar Prof R.K. Chauhan | International Journal for Scientific Research and Development, Vol. 7, Issue 2 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| YANTRA (Yuktah Autonomous The Robotic Aviator) | Sourav Kumar Singh, Vikas Rai, Sonu Kumar, Shivam Singh, Mohd. Shakir Prof R.K. Chauhan | International Journal of Advance Research Development , Vol. 4, Issue 4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Brain Controlled Wheelchair And Cursor Control | Harashit Mitra, Neha Sharma, Pradeep Yadav, Nitin Sahu Vishan Kumar Gupta | International Journal of Information Sciences and Application | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Vishal Agrawal, Nitin Chauhan Dr. Suveg Moudgil | Vishal Agrawal, Nitin Chauhan Dr. Suveg Moudgil | International Journal of Research in Electronics and | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|---|--|---|------|---|------------------------------------|---|
| | | Computer Engineering | | | | |
| Sentiment Analysis on Online Product Review | Harshit Gupta, Lokesh Kr. Tiwari, Kartik, Lav Agarwal Atul Kumar | International Journal of Innovative Science and Research Technology. Volume:4 Issue:3 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Brain tumor detection using image processing | Saurabh Kumar, Anand Kumar Singh, Shubhi Garg, Iram Abid Vivek Jain | International Journal of Information Sciences And Application | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Toxicity Prediction of Small Drug Molecules Binding to Aryl Hydrocarbon Receptor using Ensemble Model | Vishan Kumar Gupta and Prashant Singh Rana | SCI Journal "Turkish Journal of Electrical Engineering and Computer Science" | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Activity Prediction Of PreClinical Trial Drugs Of Estrogen Receptors Using Machine Learning | Hari Shankar Tiwari, Kumari Swati Gupta, Mitali Srivastava, Nitin Sharma, Vishan Gupta | International Journal of Innovations in Engineering and Science. Volume: 4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| HMM Application In Isolated Word Speech Recognition | Sonali Rawat, Shalvika Shrotriya, Juhi Chaudhary | International Journal of Innovative Research in Advanced Engineering (IJIRAE) Volume: 6 Issue:4 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |

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|--|--|---|------|---|------------------------------------|---|
| Disaster Management Systems SOLACE | Upendra Mishra, Shivani Singh, Tanisha, Teena Baadal | IRJET Issue 5, Volume 6 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Design of Standalone Photovoltaic System to Meet Energy Requirements of Village in India | Chaubey, Manoranjan | Journal of Thermal Engineering and Applications, ISSN: 23498994 (Online), Volume 5, Issue 2 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Realization of Resistorless and Electronically Tunable Inverse Filters Using VDT | Kumar, Praveen., Neeta, Pandey., Sajal, K. Paul | Journal of Circuits, Systems, and Computers, Vol. 28, No. 9 | 2018 | 0 | IMS Engineering College, Ghaziabad | 0 |
| Novel bacterial culture, Microbacterium sp. SELA 4 in Indias culture depository, | Shomini Parashar | Indias culture depository, IMTECH, Chandigarh | 2019 | 0 | IMS Engineering College, Ghaziabad | 0 |

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 |
|--|--|---|---------------------|---------|---|---|
| Circuit theory analysis of aperture coupled patch antenna for wireless communication | Ashish Singh, Mohammad Aneesh Kumari Kamakshi J. A. Ansari | Radioelectronics and Communications Systems | 2018 | 10 | 0 | IMS Engineering College, Ghaziabad |
| Performanc | Balwant | Wireless | 2018 | 48 | 0 | 1. |

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|---|--|--|-------------|-----------|----------|--|
| <p>evaluation of QAM for improvement of BER</p> | <p>Singh1 ,Vinod Shokeen2 , Rishi Asthana3</p> | <p>Personal Communications</p> | | | | <p>Department of ECEASET (AMITY University)Noida, India 1. 2.Amity School of EngineeringNoida, India 3.IMS Engineering College Ghaziabad India</p> |
| <p>Metamaterial based circularly polarized hexaband patch antenna with small frequency ratios for multiple wireless applications</p> | <p>P. Chaurasia</p> | <p>Journal of Electromagnetic Waves and Applications</p> | <p>2019</p> | <p>46</p> | <p>0</p> | <p>Indian Institute of Technology (Indian School of Mines), Dhanbad</p> |
| <p>Design and analysis of sevenband slot antenna with small frequency ratio for different wireless applications</p> | <p>P. Chaurasia</p> | <p>AEU International Journal of Electronics and Communications</p> | <p>2019</p> | <p>48</p> | <p>0</p> | <p>Indian Institute of Technology (Indian School of Mines), Dhanbad</p> |
| <p>Thermal Stability Analysis and Performance Exploration of Asymmetric Dualband Underlap Spacer (ADKUS) SOI FinFET for High Performance Circuit Applications</p> | <p>Neeraj Jain and Balwinder Raj</p> | <p>Indian Journal of Pure Applied Physics, New Delhi</p> | <p>2019</p> | <p>34</p> | <p>0</p> | <p>National Institute of Technology, Jalandhar, Punjab, India</p> |

| | | | | | | |
|--|--------------------------------|---|------|----|---|--|
| Dualk Spacer Region Variation at the Drain Side of Asymmetric SOI FinFET Structure: Performance Analysis towards the Analog/RF Design Applications | Neeraj Jain and Balwinder Raj | Journal of Nanoelectronics and Optoelectronics, California, USA | 2019 | 20 | 0 | National Institute of Technology, Jalandhar, Punjab, India |
| Analysis and Performance Exploration of High Performance (HfO ₂) SOI FinFETs Over the Conventional (Si ₃ N ₄) SOI FinFET towards Analog/RF Design | Neeraj Jain and Balwinder Raj | Journal of Semiconductors, China | 2018 | 20 | 0 | National Institute of Technology, Jalandhar, Punjab, India |
| Individual Personal Financial Planning: A Study of NCR | Dr Meenu Baliyan Punjika Rathi | Vivechan International Journal of Research | 2018 | 1 | 1 | IMS Engineering College, Ghaziabad |

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

| Number of Faculty | International | National | State | Local |
|-----------------------------|---------------|----------|-------|-------|
| Attended/Seminars/Workshops | 8 | 32 | 13 | 2 |
| Presented papers | 12 | 22 | 0 | 0 |
| Resource persons | 0 | 1 | 0 | 0 |

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/ | Number of teachers | Number of students |
|-------------------------|-------------------------|--------------------|--------------------|
|-------------------------|-------------------------|--------------------|--------------------|

| | collaborating agency | participated in such activities | participated in such activities |
|---|--|---------------------------------|---------------------------------|
| Blankets Distribution to underprivileged sections of society | IMS Engineering College, Ghaziabad | 2 | 10 |
| One day Workshop on Machine Learning | APTRONG Solutions | 2 | 61 |
| "How to face Challenges in Preparing Various Engineering Examinations". | Alumnus Er. Azaz Khan, Sub Divisional Officer (SDO), UPPCL | 1 | 82 |
| Industrial Visit | Narora Atomic Power Station (NAPS) | 2 | 49 |
| Industrial Visit | Harduaganj Thermal Power Station, Aligarh | 2 | 61 |
| National Workshop on Research Project Development Using Machine Learning Techniques | Organized by IMSEC in collaboration with AICTE | 5 | 50 |
| National Conference on Innovative Computing | IMS Engineering College in collaboration with CSI | 15 | 40 |
| FDP on Data Analytics with special focus on Python" | IMS Engineering College in collaboration with IIT Roorkee | 49 | 0 |
| Observance of National Integration and Communal Harmony Week (1925 Nov. 2018) | National Foundation for Communal Harmony (An Autonomous Organization under the Ministry of Home affairs, Govt. Of India) | 2 | 150 |
| Underprivileged Kids Education | NGO - Wings of Hope | 2 | 110 |
| Blood Donation Camp (08 Oct.2018) | Lions Club Ghaziabad | 10 | 174 |
| Blood Donation Camp (20 Feb 2019) | Rotary Club of Sahibabad | 10 | 170 |
| Warm Cloths Distribution to slum kids | Lions Club Ghaziabad NGO - Wings of Hope IMSEC Chapter | 1 | 20 |

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 |
|---|--------------------------|--|------------------------------|
| MINAR7 held at Edinburgh University, United Kingdom | Participated and honored | Honorable U.P. Chief Minister Shri Yogi Adityanath | 5 |
| Robotics Lab | Best Robo Lab award | AICRA Stem Summit | 60 |

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 |
|---------------------------------------|---|--|--|--|
| Unnat Bharat Abhiyan | IIT Delhi | Unnat Bharat Abhiyan | 2 | 12 |
| Awareness program | WINGS OF HOPE (NGO) | NukkadNatak on Swatch Bharat | 1 | 5 |
| Awareness program | WINGS OF HOPE (NGO) | BetiBachaoBetiPadhao | 1 | 7 |
| Educational Program | WINGS OF HOPE (NGO) | Awareness to Education in children of deprived category | 1 | 10 |
| CII MAJESTIC: SKILL WILL LEAD program | CII MAJESTIC at KIET, Ghaziabad | Drilling, Tapping Boring Machines: Types, Operations, Parts, Tools | 1 | 4 |
| CII MAJESTIC: SKILL WILL LEAD program | CII MAJESTIC at ABESEC, Ghaziabad | ENGINEERED SYSTEM: Automated Guided Vehicle (AGVs), Conveyor systems, Robotic Delivery Systems | 1 | 1 |
| TECHNOVATION 2018 | IMS Engineering College | ENGINEERED SYSTEM: Automated Guided Vehicle (AGVs), Conveyor systems, Robotic Delivery Systems | 1 | 4 |

| | | | | |
|--|---------------------------------------|-------------------------------|---|---|
| TECHNOVATION 2018 | IMS Engineering College | PEDAL POWERED WASHING MACHINE | 1 | 4 |
| CROSSROADS 2018 | HITECH Engineering College, Ghaziabad | AUTOMATIC DISH WASHER | 1 | 5 |
| Technical Paper Presentation (InnoTech 2k18) | KIET group of institutions | Dehumidified Cooler | 1 | 1 |

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 |
|-----------------------------------|-------------|-----------------------------|----------|
| International Research Internship | 3 | College and Self | 65 |

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 details | Duration From | Duration To | Participant |
|-------------------|----------------------|---|---------------|-------------|-------------|
| Live Project | Student Internship | Trinity Mobile App Private Ltd., 2nd Floor, Sector11, Vasundhara, Ghaziabad201012 | 31/08/2018 | 18/01/2019 | 20 |

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 |
|-----------------------------------|--------------------|--------------------|---|
| Rhythm Automation Learning Centre | 12/01/2018 | Training | 46 |
| Red Hat India Pvt. Ltd. | 20/02/2019 | Training | 28 |

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 |
| 75 | 44.55 |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| | |
|-------------|-------------------------|
| Facilities | Existing or Newly Added |
| Campus Area | Existing |
| Class rooms | Existing |

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 partially) | Version | Year of automation |
| VIDYA Lib Mgmt Software | Fully | 2.0 | 2012 |

4.2.2 – Library Services

| Library Service Type | Existing | | Newly Added | | Total | |
|-----------------------|----------|----------|-------------|-------|-------|----------|
| | | | | | | |
| Text Books | 76736 | 24934973 | 46 | 19177 | 76782 | 24954150 |
| Reference Books | 5346 | 1737450 | 0 | 0 | 5346 | 1737450 |
| Journals | 91 | 222000 | 0 | 0 | 91 | 222000 |
| e-Journals | 3 | 675489 | 0 | 0 | 3 | 675489 |
| Digital Database | 3 | 675489 | 0 | 0 | 3 | 675489 |
| Weeding (hard & soft) | 1093 | 334111 | 0 | 0 | 1093 | 334111 |
| CD & Video | 1500 | 0 | 0 | 0 | 1500 | 0 |
| Others (specify) | 20 | 0 | 0 | 0 | 20 | 0 |

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. Pankaj Aggarwal | Design and Analysis of Algorithm | AKTU Digital Platform | 03/09/2019 |
| Ms. Sapna Yadav | Design and Analysis of Algorithm | AKTU Digital Platform | 03/09/2019 |
| Mr. Anurag Mishra | Design and Analysis of Algorithm | AKTU Digital Platform | 04/09/2019 |
| Ms. Shivani Agarwal | Digital Logic Design | AKTU Digital Platform | 19/08/2019 |
| Ms. Swati Singh | Digital Logic | AKTU Digital | 21/08/2019 |

| | Design | Platform | |
|--------------------|------------------------------|-----------------------|------------|
| Ms. Shaily Gupta | Data Structure | AKTU Digital Platform | 21/08/2019 |
| Dr. Upasana Pandey | Data Structure | AKTU Digital Platform | 21/08/2019 |
| Mr. N.U. Khan | Data Structure | AKTU Digital Platform | 21/08/2019 |
| Dr. Avdresh Gupta | Data Based Management system | AKTU Digital Platform | 22/08/2019 |
| Dr. S.N. Rajan | Data Based Management system | AKTU Digital Platform | 22/08/2019 |

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

| Type | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MBPS/GBPS) | Others |
|--------------|-----------------|--------------|------------|------------------|------------------|-----------|-------------|---------------------------------|----------|
| Existing | 1066 | 17 | 200 | 3 | 3 | 87 | 91 | 200 | |
| Added | | | | | | | | | |
| Total | 1066 | 17 | 200 | 3 | 3 | 87 | 91 | 200 | 0 |

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

200 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 |
|--|---|
| AKTU Digital Platform | https://aktu.ac.in/e-learning.html |

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 |
|--|--|--|--|
| 5.91 | 6.27 | 318.25 | 333.94 |

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)

The college has well organized physical and academic support facilities. Mentioned below are procedures and policies for maintaining and utilizing physical, academic and support facilities: Laboratory: Do's and Don'ts and Safety rules displayed in each laboratory. Daily maintenance of cleanliness in each lab. Calibration of equipment done internally/externally as applicable. List of vendors for servicing of nonfunctioning instruments. Fixation of electricity or light related issues whenever required. Separate racks for chemicals, glass wares and plastic wares. Periodic revival and maintenance of

microbial cultures. Logbook for major equipments and Issues Register maintained in labs. Record of Stock nonconsumables, consumables and breakage maintained. Proper handling of hazardous waste through GLPs like neutralization, dilution, treatments for potential carcinogens (e.g. Et Br). Sharps and liquid waste handled with adequate care. Library: Our library has a rich collection of books covering all major fields of Science and Engineering. The library is fully computerized by automating the issue of books with bar code reader. The library is fully airconditioned. The library has various facilities like Conferencing, Multimedia, Internet, Reprography and CDROM collection. A book bank for deserving candidates is also maintained. The college subscribes to most of the major technical journals including IEEE, IEE, ASCE, ACM, ASTM, JGATE, MCGRAW HILL, Willey Blackwell and Science Director. Multimedia computers with internet connectivity available for accessing CBT, CDs, ebooks, ejournals etc. Students can access library facility on working days and holidays. Sports Complex: The college has well maintained sports facilities in the campus like Gyms, indoor games facilities, outdoor games facilities etc. Separate Gyms for boys and girls Gyms are well equipped with latest equipments Indoor games facilities include Table Tennis, Badminton, carom board Outdoor games facilities include Cricket, Football, Volleyball, Basketball etc. Indoor and outdoor sports complex are equipped with lights. Well trained Sports Officer to look after sports facilities and activities of students Gym trainer and students do exercises under guidance of the trainer like Do's and Don'ts, how to do and what to do etc. Computers: The college has well equipped computer labs. The computer and student ratio is 1:1. 03 browsing centres (01 in boys hostel, 01 in girls hostel and 01 in central library). Fully managed and complete campus with WiFi network. The college has internet gateway fully managed through Fortinate Gateway Security. All faculty and staff cabins are equipped with laptops/computers. All the computers are connected with high speed internet for faculty, staff. Complete gigabyte network connected with managed network equipments. All computer/labs maintained by well trained and qualified computer technical team. Classrooms: Classrooms are spacious, ventilated with sufficient sunlight. Classrooms have well organized good quality furniture/seating facility. Classrooms are fitted with airconditioners. Most of classrooms are equipped with projectors. Classrooms are WiFi enabled. Ecofriendly Solar Power used for lighting of classrooms

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 | 50 percent concession in tuition fee to the children on employees of IMS Group and Rs.25000 concession at the time of admission to Diploma Holders taking admission in 2nd year lateral entry | 9 | 278919 |
| Financial Support from Other Sources | | | |

| | | | |
|------------------|--|-----|----------|
| a) National | UP Govt Scholarship and Central Govt PMSSS | 787 | 48209078 |
| b) International | NA | 0 | 0 |

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 implemetation | Number of students enrolled | Agencies involved |
|---|-----------------------|-----------------------------|---|
| Soft Skill and Aptitude Classes | 20/08/2018 | 828 | Soft Skill by Crescent Systems, Mrs Neetu Rana and Aptitude by Zenith and Aptitude Ladder |
| Soft skill | 13/02/2019 | 712 | Soft Skill by Crescent Systems, Mrs Neetu Rana |
| Soft Skill | 14/01/2019 | 44 | Soft Skill by Crescent Systems, Mrs Neetu Rana |

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 |
|------|--------------------|--|--|--|---------------------------|
| 2018 | Placement activity | 828 | 768 | 62 | 548 |

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 |
|---------------------------|--------------------------------|---|
| 0 | 0 | 0 |

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 |
| List attached | 634 | 445 | List attached | 150 | 103 |

5.2.2 – Student progression to higher education in percentage during the year

| Year | Number of students enrolling into higher education | Programme graduated from | Depratment graduated from | Name of institution joined | Name of programme admitted to |
|------|--|--------------------------|---------------------------|----------------------------|-------------------------------|
| 2019 | 0 | 0 | 0 | 0 | 0 |

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 | 32 |

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

| Activity | Level | Number of Participants |
|---|-------------------|------------------------|
| Dr. Abdul Kalam Zonal Level Arts Cultural Fest of University (2223 Feb, 2019) | Zonal level | 450 |
| VIBGYOR 2019: Cultural Fest (15th - 16th March, 2019) | Institution Level | 250 |
| One week Sports activities (w.e.f. 3rd August, 2018) | Institution Level | 350 |
| Intra College Tournaments (16th Aug to 5th Sep, 2018) | Institution Level | 400 |
| "ENVincible 2K18" Techno cultural Fest (29th Sep, 2018) | Institution Level | 480 |
| "MECHANO 4.0" Technocultural Fest (29 Sep, 2018) | Institution Level | 637 |
| Cultural Activity by IT Dept (22 and 29 Sep, 2018) | Institution Level | 140 |
| Techno Cultural event (by GEMS BT Dept) (22nd Sep, 2018) | Institution Level | 150 |
| Intra College Tournament (18th - 28th Sep, 2018) | Institution Level | 380 |
| A series of cultural activities by IT Department (9th February, 2019) | Institution Level | 26 |
| SARGAM2019 (30th 31st March, 2019) | Institution Level | 320 |

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/ International | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
|------|---|-------------------------|-----------------------------|-------------------------------|-------------------|--|
| 2018 | 2nd Position in Football (Boys) in Sports Fest organized by Invertis University, Bareilly on 4th - 6th October, 2018 | National | 1 | 0 | 1614310007 | Mr. Abhishek Tyagi, Mr. Ujjwal Tripathi, Mr. Tarique Rehman, Mr. Aditya Singh, Mr. Vikrant Yadav, Mr. Vishal Rathi, Mr. Atim, Mr. Jatin Dhariwal |
| 2019 | Silver Medal and Rs. 5000/- in the Inter College Sports Fest at Chilla Sports Complex, New Delhi, organized by SYMBOSIS Law School, Noida on 14th - 16th February, 2019 | National | 1 | 0 | 1614321056 | Mr Piyush, IT - 3rd year |
| 2019 | 2nd Position in Volleyball (Men's) in Inter College Sports Fest "APAR AJIT-2019" held on | National | 1 | 0 | 1614321002 | Mr. Naveen Yadav, Mr. Raja Shubham, Mr. Piyush Kumar, Mr. Vibhu, Mr. Archil Singh, Mr. Prakhar Kumar, Mr. |

| | | | | | | |
|------|---|----------|---|---|--|---|
| | 15th - 17th Feb, 2019 at Symbiosis Law School, Noida | | | | | Diggant Khajuria, Mr. Vivek Barnwal |
| 2019 | 2nd Position in Basketball (Women's) in Inter College Sports Fest "INFINITO 2K19" held on 28th Feb to 2nd Mar, 2019 at Krishna Engineerin g College, Ghaziabad | National | 1 | 0 | 1614354008 | Ms. Ambika Ojha, Ms. Richa Vaishnavi, Ms. Arti Chauhan, Ms. Riya, Ms. Niti Verma, Ms. Shivani Sharma |
| 2019 | 1st Position in Table Tennis in National Level Sports Fest "RANN 19" held on 2nd - 4th March, 2019 at KIET Ghaziabad | National | 1 | 0 | 1814313118 , 18143540 13, 16143 2088, 1814313119 | Mr. Sudhanshu, Mr. Varchasva Baliyan, Mr. Himanshu Singh |
| 2019 | 1st Position in Volleyball (Men's) in Sports Fest 'Lakshya 2019' held on 27th - 29th March, 2019 at ABES Engin eering College, Ghaziabad | National | 1 | 0 | 1614321002 | Mr. Naveen Yadav, Mr. Vibhu, Mr. Vibhor, Mr. Shubham Singh, Mr. Shubham Verma, Mr. Ankit Bharti, Mr. Prakhar Kumar, Mr. Pranjal Malik, Mr. Jigish, Mr. |

| | | | | | | |
|------|--|----------|---|---|------------|--|
| | | | | | | Sarvesh Patel |
| 2019 | 1st Position in Badminton (Singles) and Badminton (Doubles) in Sports Fest 'Lakshya 2019' held on 27th - 29th March, 2019 at ABES Engineering College, Ghaziabad | National | 2 | 0 | 1714310012 | Mr. Himanshu Chauhan, Mr. Himanshu Chauhan, Mr. Vivek |
| 2019 | 2nd Place in Cricket in Inter College Sports Fest Kurukshetra-2019 on 12-14 April 2019 at ITS, Greater Noida | National | 1 | 0 | 1514340058 | Mr. Vibhav Kumar, Mr. Chandan kumar, Mr. Vishal Kumar, Mr. Shivam Singh, Mr. Nikhil Manik, Mr. Abhishek Nandan, Mr. Achint, Mr. Sudhanshu, Mr. Sakar Sarthak, Mr. Govind Singh |
| 2019 | 2nd Position in Basketball in Inter College Sports Fest ICSL-2019 on 05-07 April 2019 at Galgotia University, Noida | National | 1 | 0 | 1614340010 | Mr. Prakhar Ranjan, Mr. Chandan Kumar, Mr. Vishal Kumar, Mr. Sarvesh Patel, Mr. Vibhav Kumar, Mr. Adarsh Yadav, Mr. Abhishek |

Nandan,
Mr.
Shubham
Singh, Mr.
Saurabh
Mishra,
Mr.
Prafull
Shukla,
Mr.
Utkarsh
Srivastava

Mr.
Abhishek T
yagi, CSE3r
d year

Mr.
Abhishek T
yagi, CSE-3
rd year

Ms. Ayushi
Singh,
EN-3rd
Year

Mr. Manan
Gupta, Mr.
Piyush
Kumar, Mr.
Naven
Yadav, Mr.
Vibhor,
Mr.
Shubham
Singh, Mr.

2018

Mr THOMSO
2018 First
RunnerUp
(in
Thomsol8
held at
IIT
Roorkee on
26th 28th
October,
2018)

National

0

1

1614310007

2018

"Mr. RDV
2018"
(Also cash
Prize of R
s.2,000/-)
in Rendezv
ous'18 at
IIT DELHI
on 14th
October,
2018)

National

0

1

1614310007

2018

2nd Prize
in "Mr. &
Ms. RDV"
(Also cash
Prize of R
s.2,000/-)
in Rendezv
ous'18, on
14th
October,
2018 at
IIT Delhi

National

0

1

1614321023

2018

1st
Position
in
Volleyball
(Boys) in
Sports
Fest
organized
by
Invertis U

National

1

0

1614321305
6

niversity,
Bareilly
on 4th -
6th
October,
2018

Shubham
Verma, Mr.
Ankit
Bharti,
Mr.
Prakhar
Kumar, Mr.
Pranjal
Malik, Mr.
Jigish Mr.
Shreya

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

Activity of Student Council representation of students on academic administrative bodies/committees of the institution: Academic Representation: SAE INDIA Collegiate The College has several student led councils (societies) like Byte Club, Code Raider Club, TCode Club, Abhigyan, IMS Code Force (CSE Department) INFOCORP (IT Department) GEMS (Biotechnology Department) ENVINCIBLES (EN Department) MechEdge Club and SAE INDIA Collegiate (ME Department) FACES Club (EC Department) HR Club, Marketing Club Finance Club (MBA Department). SRIJAN - a club for students of all branches. These student councils represent student group of that department through which the students take part and organize different types of activities in the college. BYTE society of the CSE Department is engaged in publication of a monthly emagazine of the department namely BYTE and also organizes different events of the department. Code Raider Club organizes programming events for students. TCode Club organizes web events for the students. IMS Code Force Club organizes competitive events for the students. In this magazine students publishes various articles written by students and is circulated amongst student community which subsequently help them to upgrade their knowledge and skills and make them aware of the latest developments in their fields. Code Raider Club organizes different Coding events for students which provide them opportunity for show their talents. INFOCORP organizes various events for the students of IT Department. GEMS is a Society of Biotechnology department students. It organizes different types of events for students like quizzes, paper presentation, lecture, plantation etc. ENVINCIBLES organizes different technical and cultural events of EN Department. MechEdge club of ME Department organizes different technical and cultural activities of the department where SAE INDIA Collegiate club is engage in preparation/development of BAJA Vehicles and taking part in the different events being organized at national/regional level. Besides departmental activities, students also participate in organizing different big events of college like Cultural Fest, Tech Fest, Sports Fest etc. They participate in organizing committee, a volunteers etc. Students Class Representatives are also an important students representation in academic activities of the college. They have their period meetings with Head of the Department and Director. Academic feedback is taken through them and they also represent problems of their class, if any, and various decisions are taken based on their feedback for their improvement. Administrative Representation: Students also have their representation in some administrative activities like students Mess Committee in hostels. There are separate students committees for Boys and Girls hostels. Students have good representation in the Mess Committees. They take part in deciding menu of their mess. Through this they can discuss their hostel problem, if any, related to mess, hostel, food, cleanliness etc.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

2550

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1. Alumni Meet 2018 held on 17th November, 2018 (CSE) 2. Alumni Meet held 2019 on 30 March 2019 3. Alumni Sport Day on 26 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)

Vision Our vision is to impart vibrant, innovative and global education to make IMS the world leader in terms of excellence of education, research and to serve the nation in the 21st century. Mission • To develop IMSEC as a centre of excellence in Technical and Management education. • To inculcate in its students the qualities of Leadership, Professionalism, Executive competence and corporate understanding. • To imbibe and enhance Human Values, Ethics and Morals in our students. • To transform students into Globally Competitive professionals. The College has a wellmarked administrative and academic setup conforming to the norms of the AICTE for smooth functioning of college. 1. Administrative Setup: Management The IMS Engineering College is managed under IMS Society. The society has its Governing/Executive Council which takes care of the proper functioning of all its three campuses. The Council primarily takes care of strategic issues and provides advice on policy and contributes to the collegewide planning process. Director The Director is the Head of the Institute and looks after all the administrative and academic activities. He is responsible for academic planning, its implementation and streamlining of the academic processes. The Director ensures that regular daytoday operations are properly conducted through various monitoring mechanisms. Registrar The Registrar works under guidance of the Director and looks after the proper execution of academic and administrative matter like enrolment of students, maintaining student records, keeping permanent record of marks and other university related works. 2. Academic Setup: Deans/Heads of Department Academic Dean is the highest ranking academic official in the institution, next to the Director. The Dean provides strategic direction, academic planning, leadership and administrative oversight to achieve the highest standards in engineering. HODs manage and develop the department to ensure the achievement of the highest possible standards of excellence in all its activities. They are supported by faculty and staff members. Heads of Department exercise leadership demonstrate vision and empower others in order to deliver the agreed departmental strategy required for achieving the desired goals.

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 |
|--|---|
| Examination and Evaluation | <p>Internal examinations, class tests are conducted as per plan in a predefined way. University standard is followed in preparing the question papers of the internal examinations and class test. The standard of the question papers is checked by HOD concerned and Dean (Academic). Conduct of the examinations is supervised by departmental Heads and Dean (Academic). Internal practical examinations are conducted. Quality assignments are given to the students. A fair evaluation and marking is done to maintain the standard.</p> |
| Research and Development | <p>Faculty and students are encouraged in research work. They are encouraged to write and publish research papers and articles in the journals of national and international repute. They are encouraged to write and present papers in the Seminars, Conferences of repute. They are sent to attend Workshops, Seminars, Conferences to enhance their knowledge and update themselves with latest developments in their fields. A rich library having a good number of titles, journals, ejournals etc. is available in the college to refresh their knowledge and new developments. It a well equipped multimedia facility to access ejournals and online journals etc.</p> |
| Library, ICT and Physical Infrastructure / Instrumentation | <p>The college have a fully computerized by automating issue of books with bar code reader. It's fully airconditioned library providing comfortable reading zone to its readers. It has various facilities of Conferencing, Multimedia, Internet, Reprography and CDROM collection. A book bank for deserving candidates is also available. The college subscribes most of the major technical journals including IEEE, IEE, ASCE, ACM, ASTM, JGATE, MCGRAW HILL, Willey Blackwell and Science Direct journals. Multimedia computers with internet connectivity provided for accessing CBT, CDs, ebooks, ejournals. Library facility is available in working hours as well as on holidays as per the requirement.</p> |
| Human Resource Management | <p>IMSEC has a well managed separate Human Resource Management Department. It maintains all the personal records of faculty and staff members. Appropriate</p> |

leaves like Earned Leave, Medical Leave, Casual Leave etc. are provided to the faculty and staff members. They are also provided Outdoor Leave for taking part in Quality Improvement Programmes, ShortTerms, Faculty Development Programmes, Seminars, Conferences etc. Appropriate reimbursement is given to the faculty and staff sponsored for such programmes. Appropriate opportunity is provided to faculty to enhance their qualification and Study Leave is provided for that.

Industry Interaction / Collaboration

Industry interaction is an important part of academic activities and knowledge enhancement of students. Besides classroom learning, many experts from reputed industries are invited to deliver expert/guest lectures, seminars, workshops and to interact with our students. They share their expertise in the field with students, give them important tips for selection, guide them to choose their career etc. Students are sent for industrial visits from time to time to make them aware of industry processes, operations, management and working which certainly provide them a lot to learn. Collaborations are done with industry for research and development training of students.

Admission of Students

A major part of admission i.e. 85 of the intake comes through University Counselling i.e. Uttar Pradesh State Entrance Examination conducted by Dr. A.P.J. Abdul Kalam Technical University. Only 15 admission can be taken under Management/Direct admission quota. To improve the quality of students intake, the college makes a wide advertisement campaign all over the state so that good quality students can be selected. The college tries to follow appropriate marks criteria for Direct Admission. They also have to go through a general test and viva process for admission and suitable stream/branch is allotted based on their choice and ability.

Curriculum Development

As the college is affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow, the Curriculum is defined and prescribed by the affiliated university. The College is to adhere to the syllabus of the

university. However, to enhance and update the knowledge and employability of our students, the college make efforts to provide various value added courses to the students. We provide Soft Skill training enhance communication skill of the students. To enhance their employability, we provide Aptitude Training to the students. Mock interviews are conducted for year students. For this, college also hires outside agencies for training. Various competitive events, quizzes, presentations are also conducted from timetotime.

Teaching and Learning

Quality planning is done and implemented in teachinglearning process. Subjects are allotted to the faculty based on their expertise and subject choices given to them which improves the class delivery. A well defined academic calendar is prepared for each semester before the semester starts. Director, Dean (Academic), HODs pay proper attention to ensure the smooth conduct of academic activities. Meeting with departmental Heads is held to discuss and finalize action plan for coming semester. Monthly departmental meetings are held to monitor and evaluate the progress. Course files are prepared in a predefined format. Value addition programs are planned for coming semester.

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

| E-governace area | Details |
|--------------------------|--|
| Planning and Development | Call for meetings and minutes of the meetings are communicated electronically. Important data related to development is maintained electronically and retrieve as per need and necessity. |
| Administration | Most of the administrative works of institute are being carried out online instead of paper work. The instituted maintains its own internal servers for data maintenance and communication. Email service is used for internal and external communication. |
| Finance and Accounts | Our Finance and Accounts department is supported by latest accounting software. Electronic transactions are also done. Students fees is also accepted and remittance through electronic transactions. |

| | |
|-------------------------------|--|
| Student Admission and Support | Students' selection and admission process is carried electronically. Students' record is also maintained and internally distributed electronically through institute ERP System. Students' attendance and academic progress are maintained and made available to the students and their parents online through institute portal. Students' feedback is taken online. |
| Examination | We do maintain ERP server in the institute and also communicate to the affiliated university server on daytoday basis like attendance of the students, sessional examination marks of the students. |

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 |
|------|-----------------|--|--|-------------------|
| 2019 | Nil | Nil | Nil | 0 |

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 FDP on "Recent Advances in Computer vision Image Processing" | | 28/07/2018 | 28/07/2018 | 20 | 0 |
| 2019 | Faculty Development Programme on "Automation Studio" | | 07/03/2019 | 07/03/2019 | 45 | 0 |
| 2019 | Twodays Training Program on Newly Esta | | 17/04/2019 | 18/04/2019 | 9 | 0 |

| | | | | | | |
|------|--|--|------------|------------|----|---|
| | blished Lab of Pneumatics | | | | | |
| 2019 | One week FDP on "Python Pr ogramming" | | 15/07/2019 | 19/07/2019 | 21 | 0 |
| 2019 | One week FDP on Data Analytics with special focus on Python | | 22/07/2019 | 26/07/2019 | 49 | 0 |

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 |
|---|---------------------------------|------------|------------|----------|
| One week FDP on "Application of MATLAB/LabVIEW in Engineering" organized by ABES Engineering College Ghaziabad | 2 | 09/07/2018 | 13/07/2018 | 5 |
| One week FDP on "Advanced Wireless Sensor Network" organized by KIET Ghaziabad under TEQIPIII AKTU | 4 | 09/07/2018 | 13/07/2018 | 5 |
| FDP titled "A Practical Approach to Signals Systems, sponsored by AKTU, Lucknow under TEQIP Phase 3 at KEC, Ghaziabad | 7 | 09/07/2018 | 13/07/2018 | 5 |
| Industrial Training on "QDec System for measuring the surface | 1 | 09/07/2018 | 13/07/2018 | 5 |

| | | | | |
|--|---|------------|------------|---|
| undulations of Reflectors and analysis at NETRANTPC Ltd., Greater Noida | | | | |
| Training on Installation of Electrical and Electronic Components at MPPKVV Co. Ltd. Bijawar S/Dn | 1 | 02/07/2018 | 06/07/2018 | 5 |
| Industrial Training in BHU Agro Foods Private Ltd. Surat | 1 | 02/07/2018 | 06/07/2018 | 5 |
| Training on "Basic Fundamental of MATLAB and Signal Processing" at CETPA Infotech Pvt. Ltd. | 1 | 02/07/2018 | 07/07/2018 | 6 |
| FDP titled "Structural Analysis and Behavior of Structure" organized by Civil Engg Deptt. of KEC Ghaziabad | 1 | 16/07/2018 | 16/07/2018 | 1 |
| Five day FDP on "Advanced Wireless Sensor Network" at KIET Ghaziabad | 1 | 09/07/2018 | 13/07/2018 | 5 |
| One week FDP on "Pattern Recognition conducted by IT Deptt of ABESEC Ghaziabad under TEQIPIII | 1 | 09/07/2018 | 13/07/2018 | 5 |
| Five day Summer Training on "Java Programming Language from GPS InfoSolution Pvt. Ltd. | 1 | 02/07/2018 | 06/07/2018 | 5 |

| | | | | |
|---|---|------------|------------|---|
| Six day Training Program on "Python Programming" at Universal Institute of Computer Technology Gwalior | 2 | 02/07/2018 | 07/07/2018 | 6 |
| Five day Training Program on "Web Development Technologies" at AIMS Interactive Pvt. Ltd., Jabalpur | 1 | 09/07/2018 | 13/07/2018 | 5 |
| Five day Training on "Cloud Computing" at Aptron Solutions Pvt. Ltd. Noida | 2 | 25/07/2018 | 29/07/2018 | 5 |
| FDP on "Machine Learning and data analytics with python" By EampICT, IIT Roorkee held at AKGEC, Ghaziabad | 1 | 04/12/2018 | 08/12/2018 | 5 |
| Five days FDP on "AI and Machine Learning" at CDAC Noida | 2 | 17/12/2018 | 21/12/2018 | 5 |
| Management Capacity Building Program on 'Critical Thinking at IIM, Lucknow | 1 | 23/05/2019 | 26/05/2019 | 4 |
| Five days MHRD sponsored TEQIPIII Faculty Development Program on "System Thinking And Environmental | 1 | 03/06/2019 | 07/06/2019 | 5 |

| | | | | |
|---|--|--|--|--|
| Engineering For Sustainable Decision Making" organized by Chemical engineering Dept. IIT, Roorkee | | | | |
|---|--|--|--|--|

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

| Teaching | | Non-teaching | |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent | Full Time |
| 13 | 13 | 3 | 3 |

6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|--|--|---|
| 1. The college provides a Mediclaim Insurance facility of 2 lacs per year for Faculty and their family without any charge from them. 2. The college provides lunch facility to faculty at a very nominal charge. 3. The college provides 50 concession in tuition fees for their children studying in IMSEC. | 1. The college provides a Mediclaim Insurance facility of 2 lacs per year for Staff and their family without any charge from them. 2. The college provides lunch facility to faculty at a very nominal charge. 3. The college provides 50 concession in tuition fees for their children studying in IMSEC. | 1. The college provides a Mediclaim Insurance facility of 1 lacs per year for students with a nominal charge. 2. The college provides financial support to students going abroad for international internship. 3. Doctor facility in the campus. 4. Ambulance facility in the campus. |

6.4 – Financial Management and Resource Mobilization

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

| |
|--|
| The institute maintains its financial accounts i.e. earning, daytoday expenses etc. properly. To maintain its financial accounts properly, the institute has appointed internal auditor. The Internal Auditor audits the daytoday expenses etc. regularly on monthly or quarterly basis. The institute also has external audit system. It prepares its yearly balancesheet which is audited by external auditor. The final balancesheet is also uploaded on college website. |
|--|

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 |
|--|-------------------------------|---------|
| NA | 0 | NA |

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 | No | | | |
| Administrative | No | | | |

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

| |
|-----|
| Nil |
|-----|

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

| |
|-----|
| Nil |
|-----|

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

| |
|-----|
| Nil |
|-----|

6.5.5 – Internal Quality Assurance System Details

| | |
|--|-----|
| a) Submission of Data for AISHE portal | Yes |
| b) Participation in NIRF | Yes |
| c) ISO certification | |
| 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 |
|------------------------------------|------------------------------------|-------------------------|---------------|-------------|------------------------|
| No Data Entered/Not Applicable !!! | | | | | |

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 |
| No Data Entered/Not Applicable !!! | | | | |

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 |
| The College has Solar Power capacity of 184 KV. |

7.1.3 – Differently abled (Divyangjan) friendliness

| Item facilities | Yes/No | Number of beneficiaries |
|----------------------------|--------|-------------------------|
| Physical facilities | Yes | 0 |
| Ramp/Rails | Yes | 0 |
| Rest Rooms | Yes | 0 |
| Any other similar facility | Yes | 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 |
|------------------------------------|--|--|------|----------|--------------------|------------------|--|
| No Data Entered/Not Applicable !!! | | | | | | | |

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 |
|------------------------------------|---------------|-------------|------------------------|
| No Data Entered/Not Applicable !!! | | | |

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

The college has taken initiatives for make the campus ecofriendly. Following are the initiatives taken by the college: 1. The college has installed solar power energy plant. 2. The college has planted sufficient numbers of plants to maintain good greenery in the campus. 3. The college has Rain Water Harvesting system in the campus. 4. The college has Rain Sewer Treatment Plant in the campus. 5. Fully reuse of treated water.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

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

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

IMS Engineering College is one of the premier technical institutes in India. It was established in with an objective of creating a pool of trained and world class technocrats to contribute towards the economic and social development of the country. The aim of the institute is to provide high quality technical knowledge and skills that address the changing needs of industries. Besides NAAC Accreditation, IMSEC was granted NBA accreditation to its B.Tech (CSE) (ME) programmes for 3 years in 2016. The college has a sprawling campus and is meticulously planned in a number of functional building blocks separated by lush green lawns. IMSEC has an excellent and stateoftheart infrastructure with the following salient features: • Well stocked and fully computerized library consisting of books, ejournals, ebooks and informative magazines which is one of the best libraries established by private colleges in NCR region. • A digital language lab for enhancing students’ communication skills in the right perspective. • IMSEC campus, situated at NH24, main highway road, is

conveniently connected to all destination in DelhiNCR. • To keep students physically and mentally fit, campus facilitates with Indoor Sports like table tennis, chess, carom and many more are available for students' recreation and Outdoor Sports like lush green well maintained spacious play ground for playing cricket, football, basketball, volleyball, badminton etc. • The entire campus is CCTV secured. • Separate boys and girls hostel facility. • ATM booth. The college provided 02 Gold Medallist and 07 University toppers in last three years (BT). The sends and supports to its students for International Research Internship to USA. Some of the IMSEC students are also placed abroad. The institute has a good track record in placement of its students. The students of IMSEC are proving themselves at National level in the field of technical innovations and knowledge by winning several National level competitions and awards. IMSEC students also marking their presence on international level. They have presented their project MARS ROVER in UKCA Mars Mission under the collaboration of the University of Edinburgh in Scotland to participate in MINAR project held at Whitby, Yorkshire by University of Edinburgh, U.K. IMSEC achieved 9th Rank as per AKTU, Lucknow Institutes' based on the 1st year performance of session and 12th Rank based on the final year performance of MBA for the session 201718 (released in the June, 2019) amongst all institutions of Uttar Pradesh affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow.

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

The future plan of the college is to focus more on academic research and industry and corporate outreach. By including interdisciplinary and multidisciplinary research will help us to enhance the quality of teaching as well as innovative projects for the students. This will also enrich the knowledge of faculty to supervise students with more scientific temperament and high confidence levels. It will also inculcate the creativity with innovative minds in the areas of technology and management. We will try to design and implement novel projects by collaborating with industry and corporate sector taking our industrial location advantage. Industry and academia are two pillars which work in parallel for the growth of technological innovations and management skills. We will bring more experts from the above said areas and organise workshops, seminars to familiarise our faculty and students with the latest developments in the academia and industry. We encourage our faculty for doing Ph.D and will try to induct more faculty with good research background. We will try to conduct more national and international Workshops/Seminars/Conferences. For this, we will also apply for funding to various agencies. We will be providing our students the knowledge and live projects so that they can meet the requirements of the industries and other organisations. We do mentor our students for research paper writing skills. Our college will be focusing more on research and industry outreach, this will help us to have over all development.