Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**AJAY KUMAR GARG ENGINEERING COLLEGE**
Name of the head of the Institution	**Dr P K Chopra**
Designation	**Director**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**01202761842**
Mobile no.	**9350023027**
Registered Email	**deansp@akgec.ac.in**
Alternate Email	**choprapk@akgec.ac.in**
Address	**27th KM Milestone, Delhi - Hapur Bypass Road, Adhyatmik Nagar.**
City/Town	**Ghaziabad**
State/UT	**Uttar pradesh**
Pincode	**201009**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr P K Chopra**
Phone no/Alternate Phone no.	**01202761842**
Mobile no.	**9350023027**
Registered Email	**deansp@akgec.ac.in**
Alternate Email	**choprapk@akgec.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.akgec.ac.in/wp-content/uploads/2022/08/AKGEC-AQAR-2018-19.pdf

4. Whether Academic Calendar prepared during the year

Yes

if yes,whether it is uploaded in the institutional website: Weblink :	https://www.akgec.ac.in/academic-year-2019-20/

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity Period From	Validity Period To
1	**B**	**2.79**	**2015**	**03-Mar-2015**	**02-Mar-2020**

6. Date of Establishment of IQAC

10-Oct-2014

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
Feedback from students of	**01-Nov-2019**	**4049**

odd sem 2019-20	1	
Academic Administrative Audit (After Sessional Test) even sem	17-Feb-2020 2	256
Regular meeting of Internal Quality Assurance Cell (IQAC) even sem	09-Jan-2020 1	15
Academic Administrative Audit (After Pre University Test) odd sem	28-Nov-2019 4	256
Analysis of Student feedback forms odd sem 2019-20	01-Dec-2019 1	4049
Regular meeting of Internal Quality Assurance Cell (IQAC) odd sem	04-Oct-2019 1	18
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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
AKGEC	NA	NIL	2020 0	0
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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)	

Sr. No. Event Departments Date 1 6th National Conference on 'Information Technology for Business Transformation' ITBT'19 CSE and IT 08Nov19 2 Development of e content (video lectures and lecture notes) for online classes By all department faculty members Complete session 20192020 3 Collaborative research in innovation program under TEQIPIII of AKTU CSE, ME, ECE, IT Complete session 20192020 4 Incorporation of ERP portal By all departments Complete session 20192020 5 Entrepreneurship Awareness Camp IDEA Lab 24 /9/2019, 26/09/2019 and 26/02/2020

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Planning of Summer Internship by all the departments	Inhouse summer internship conducted by all the departments
To conduct activities/ collaboration between institute and industries to bridge the industry academia gap	Entrepreneurship Awareness Camp was organized by Idea Lab on 24 /9/2019, 26/09/2019 and 26/02/2020
To conduct FDPs/Workshop/STTPs/Conference	National Conference organised by CSE/IT department on 'Information Technology for Business Transformation' ITBT'19 on 08-11-2019
Schedule of Audit for teaching learning process	Schedule is prepared and audit held as planned
Formation of Team to audit progress regarding various NAAC Criterion	Audit team is formed and list attached
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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	2020
Date of Submission	06-Mar-2020
17. Does the Institution have Management Information System ?	Yes

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Yes, College has ERP system in all departments/Sections. It helps to store student related information which enhance decision making for taking routine decisions related to students development and progress in the class, and further helps in planning their placement activity better, and also making its footprint on managing alumni in long run, and much more. MIS also help in managing our human resources, our experts and overall knowledge management in the organization.

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

Ajay Kumar Garg Engineering College, Ghaziabad (an initiative of the Indian Institute of Management and Engineering Society) is affiliated with Dr. A. P. J. Abdul Kalam Technical University, Lucknow and strictly follows the curriculum prescribed by the university. The college offers AICTE approved, B.Tech. courses in twelve disciplines and at the postgraduate level, M. Tech, MCA courses in four engineering disciplines. The IQAC team is ensuring the instructional standards for stable education and examination system required for efficient curriculum delivery. The Head of the Departments discusses their action plans in their meetings with faculty members, for optimal and effective curriculum delivery. The process of ensuring the effective curriculum delivery by the Institute is listed as follows: Every academic semester commences with the distribution of an institute academic calendar based on the AKTU (university) calendar to students, faculty members. After allocation of the subjects, being taken from subject choice based on area expertise and previous year's performance, a master timetable is prepared and shared with students. The lecture-wise-schedule (LWS) is approved by Syllabus Monitoring team and HoDs for every subject in their department. The contents are delivered to students as per this LWS and regularly monitored by the IQAC team. The subject course file is prepared by every faculty member of the department (reviewed by HoD and IQAC team) that includes Quality Policy, PEOs, POs, PSOs, COs, Academic Calendar, Syllabus, Class/Master time-table, Lesson Plan as per Bloom's Taxonomy, Mapping of COs and POs, Previous Year Question Papers, GAP-Analysis, Action is taken to fill the GAP, Assignments, Topic beyond the syllabus, Quizzes, Question Bank, List of Text & Reference Books, e-content. As per the university guidelines, time table of each department is prepared to seek the number of credit hours for each subject before the commencement of the semester by each department. In accordance with AICTE induction program guidelines, students are familiarized by the departments about syllabus contents, teaching pedagogy, department societies, the various center of excellence in the campus, and Universal Human Values. Students are given exposure in form of guest lectures by eminent speakers, industry visits, various activities by department societies to meet the present industry needs. The course coverage is closely supervised by the IQAC team, HOD, and Director General regularly to ensure that faculty members complete the curriculum within the allotted time. HoD and senior faculty members regularly visit the classes and monitor the conduct of classes and corrective action is further taken. Regular interaction of Class

representatives, brilliant, slow learners and fewer attendance students is done with HoD along with the faculty coordinator. Students' attendance is monitored regularly through the Moodle. As a part of continuous evaluation, three internal sessional tests are conducted centrally by the institute. The student's performance in these internal exams is uploaded on the Moodle and analyzed further to take action. Feedback from Students, Teachers, Employers, and Alumni are taken based on predefined parameters and reviewed further.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Internship on Java	NA	20/05/2019	19	YES	YES
Joy of Programming using Python	NA	18/06/2020	28	YES	YES
Problem solving using Data Structures	NA	18/06/2020	28	YES	YES
Introduction to MATLAB	NA	18/06/2020	10	YES	YES
Campus Connect Programme	NA	15/07/2019	120	YES	YES
Developing soft skills and personality	NA	18/06/2020	28	NO	YES
Patent Law for Engineers and Scientists,Speaking effectively, enhancing soft skill and personality	NA	18/06/2020	28	NO	YES
Introduction to Industry 4.0 and Industrial Internet of Things	NA	18/06/2020	84	YES	YES
Personality Development Programme	NA	15/07/2019	270	NO	YES
Patent Law	NA	18/06/2020	84	NO	YES

for Engineers Scientists					
Enhancing soft skills and Personality	NA	18/06/2020	56	NO	YES
Speaking Effectively	NA	18/06/2020	56	NO	YES
Emotial Intelligence	NA	18/06/2020	56	YES	YES
Introduction to Industry 4.0 and Industrial Internet of Things	NA	18/06/2020	84	YES	YES
Soft Skill Development	NA	18/06/2020	56	NO	YES
Computer Graphics	NA	18/06/2020	56	YES	YES
Java Programming	NA	22/06/2020	28	YES	YES
Web Technology	NA	18/06/2020	28	YES	YES
Data Base Managment System	NA	22/06/2020	28	YES	YES
Object Oriented Programming	NA	22/06/2020	28	YES	YES
Python Programming	NA	22/06/2020	28	YES	YES
Data Structure	NA	22/06/2020	28	YES	YES
AKGEC_Skill_Course_Kuka Robotics	NA	18/06/2020	28	YES	YES
Bearing Capacity of Foundation	NA	05/08/2019	28	NO	YES
Understanding Science of Relationships through Self-Exploration	NA	23/09/2020	1	NO	YES
Mutually Fulfiling	NA	18/06/2020	1	NO	YES

NPTEL	NA	18/06/2020	84	NO	YES
Digital Image Processing	NA	18/06/2020	28	YES	YES
CYPHER20	NA	22/06/2020	1	YES	YES

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Computer Science & Information Technology	01/07/2019
BTech	Computer Science	01/07/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Computer Science Engineering	01/07/2016
BTech	Electronics & Communication Engineering	01/07/2016
BTech	Electrical & Electronics Engineering	01/07/2016
BTech	Mechanical Engineering	01/07/2016
BTech	Information Technology	01/07/2016
Mtech	Electronics & Communication Engineering	01/07/2016
Mtech	Computer Science & Engineering	01/07/2016
Mtech	Mechanical Engineering	01/07/2016
Mtech	Electrical & Electronics Engineering	01/07/2016
BTech	Electronics & Instrumentation Engineering	01/07/2016
BTech	Civil Engineering	01/07/2016
BTech	Computer Science	01/07/2019
BTech	Computer Science & Information Technology	01/07/2019
MCA	MCA	01/07/2016

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

	Certificate	Diploma Course
Number of Students	2347	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
Human Values Professional Ethics/Professional Communication	01/07/2016	14
Technical Communication/Universal Human values	01/07/2019	929
Personality Development Programme	25/07/2019	959
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Computer Science & Engineering	627
BTech	Computer Science & Information Technology	65
BTech	Computer Science	65
BTech	Information Technology	458
BTech	Electrical & Electronics Engineering	345
BTech	Electronics & Communication Engineering	543
BTech	Electronics & Instrumentation	70
BTech	Mechanical Engineering	505
BTech	Civil Engineering	327
	View File	

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

The Semester wise /year-wise feedback is collected at various levels from the stakeholder such as Students, Parents, Teachers and Alumni, Industry and Employers. This feedback is analyzed further at higher level and steps are taken to improve the functioning. Feedback of stakeholders is sought regularly about infrastructure and learning resources for ensuring their constant

satisfaction. Accordingly, continuous review of infrastructure and learning resources is carried out by respective committees and the recommendations are integrated for upgrading, maintaining and utilizing physical, academic and support facilities. Student feedback: Student response is recorded for every course in each semester through a formal feedback process offered in the semester. The assessment has been taken based on a scale of 1 to 5 for the following criteria such as: Coverage of the subject material specified in the syllabus. Preparation and organization of lecture. Presentation and Communication Skills. Quality of tutorial assignments. etc. The assessment results are documented for each year and are discussed in the meeting of department faculty to make corrective measures to improve the teaching-learning processes. Teacher feedback: For the improvement of teaching learning and curriculum enrichment, Student feedback survey is utilized. Departmental academic bodies suggest training and counselling for improving teaching skills. Faculty members attend accordingly FDP and training programs for the improvement. Employer feedback: The institution has been backed by very fine group of multi-National companies, for which the student's placement is 100 guaranteed. The relationship with such major group of companies is purely based on the feedback being provide to the Institution from the Industry side. Feedback flows back to the department regarding the program especially when the course scheme and syllabi are reported to the Board. The visiting teams consisting of subject experts and human resource personnel. During their interaction with the students, these teams can judge the expected student outcomes and are able to provide information on their performance against each outcome. The survey form, like the other forms, has questions related to the student outcomes and the visiting teams (subject expert) are requested to complete this form after they have interviewed/ discussed with the graduating students. The rating is again given on a scale of 1 to 5 with 5 representing the best performance. Parents Feedback: The Institution collects the feedback from students' parents to give tips concerning the curriculum of their wards that is duly cited with the aid of the applicable individuals within the college. • Alumni feedback: The alumni of the college who have moved on to the industry or for higher studies additionally give a feedback on how their years in the institution have helped them perform at their places of work/study during the annual Alumni meet. The alumni additionally supply constructive tips to help the present students gain extra recognition and improving themselves.

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	CE	120	Nill	104
BTech	CSE	180	Nill	214
BTech	CS	60	Nill	65
BTech	CSIT	60	Nill	65
BTech	ECE	180	Nill	204
BTech	EI	60	Nill	20
BTech	EN	120	Nill	123
BTech	IT	180	Nill	206
BTech	ME	180	Nill	154
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	3873	176	227	29	15

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
256	256	8	87	87	10

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

Students joining B. Tech is mostly fresh school pass-outs. They are not mature and most of them are suddenly entered a free and liberal environment from the protected environment of the school and home. It is very important that these students are given the correct environment and properly groomed on various fronts like academics, discipline, and overall personality development. This can be achieved to a large extent by placing each student under a mentor. A small group of students is allotted to a faculty who functions as a group mentor. • Types of mentoring: ? Course Work Specific ? Professional guidance/career advancement/course work specific/laboratory specific/all-round development ? Number of students per mentor: 20-25 ? Frequency of meeting: Once a week ? Academic Counselling: Slow learners are identified and are given special care, through regular counselling / academic advice by the subject teacher and mentor. Advanced learners are encouraged to prepare for National and International level competitive exams. Mentorship classes for weak students: In order to promote student linkages and involvement, a mentorship program is conducted for difficult subjects. Under this program, top-notch students of the institute conduct lectures for weak and good students. This builds up a sentiment of selfless service and leadership skills within the student community at large. As an incentive, the college gives suitable cash reimbursements to such students. The overall program is conducted under the supervision of the concerned subject faculty. Extra classes or remedial classes and tutorial classes: The department arranges extra classes/remedial classes, especially for the lateral entry students and identified week students. The faculty members mainly repeat the topics discussed on that particular week and try to bridge the knowledge gap, especially with the week students. The department also arranges many workshops under various student chapters for the same purpose. Diagnosing and Tracking Student Performance and Attendance: After each months completion, the department identifies and motivates the students with lower attendance after accumulating all attendance of all subjects. Categorically most of them are week students and lack interest in the course for various reasons. Also, results of the semester, as well as internal examinations, are duly analyzed by respective faculty members and the head of the department. The department arranges a parent-teachers meeting at least once a semester for lower-performing week students to motivate them. Enhancing English, Communication, and Presentation Skills: Generally, the course curriculum has English as well as communication language courses to improve the communication skill of the students. Institute has an English language lab where students can listen to tapes and use workbooks to improve their English, particularly spoken English in which they are weakest. Additionally extra classes like 'group discussion',' personality development',' seminar', 'grooming classes', are incorporated into regular class routines of various semesters even if those are not part of the stand. These activities are also monitored by student mentors along with MOOC courses

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio

4049	256	1:16

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
231	256	0	44	79

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Namrata Gupta	Assistant Professor	Dr. APJ Abdul Kalam Technical University
2020	Dr. R. K. Agrawal	Professor	All India Council for Robotics Automation (AICRA)
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	13	1	31/12/2019	17/02/2020
BTech	21	1	31/12/2019	17/02/2020
BTech	32	1	31/12/2019	17/02/2020
BTech	31	1	31/12/2019	17/02/2020
BTech	10	1	31/12/2019	17/02/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Following resources and practices ensure student centric learning and independent learning: • Resources: a) Classrooms: All Class- rooms are equipped with Smart Boards, internet connectivity LCD Projection Systems, LCD Screens, USB ports for Laptop connectivity, Wireless Audio systems and green board. These facilities enhance lecture delivery and effective communication. (During covid 2019-20 Even semester session all the classes and internal examinations were held online at the AKGEC google portal) b) In all departments, all faculty rooms are equipped with desktop computers, Laptops, and all necessary resources such as Wi-Fi connectivity which is available free of cost throughout the campus. c) Access to a large number of online technical journals such as IEEE, ISTE, etc enhances the level of understanding. d) Availability of a large number of textbooks, Reference books, Technical journals, Technical magazines, etc. e) Enhanced lecture delivery support through smart class software modules procured from reputed vendors for certain subjects for enhancing the degree of understanding. f) Minimum of 50 hours of teaching is planned and imparted for

every full unit subject per semester which is monitored by the HoDs of each department. g) Each faculty, in consultation with HoD, prepares an ISO file before the commencement of the semester, and discusses lesson plan(s) with students. h) Lesson notes are distributed/discussed after each module is covered in the class. i) Faculty's performance is closely monitored by respective HoDs, IQAC through periodic feedback from students. j) Collaboration with various industries for the establishment of Centres of excellence. k) Encourage faculty to develop new experiments and topics beyond the syllabus. l) Promotion of techno-cultural environment through various Departmental societies run by student mentors under the guidance of faculty members m) Students do projects in groups under the guidance of a faculty. n) Industrial visits are organized to interact with experts in the field and know the practical utilization of their knowledge. o) Central computing, LAN facilities, and e-Library facilities help faculty and students in the teaching-learning process. p) Innovative topics over and above the curriculum are encouraged through IQAC. q) Regular guest lectures by eminent experts from industry and academia are organized to address novel areas. r) Mentorship program for difficult subjects is conducted by top-notch students for their succeeding batches. s) Students across various streams are selected within the campus by a project evaluation Committee set up by TIFAC CORE at the third-year level to accomplish projects sought from various industries. t) Selected faculty members from various departments offer real-time consultancy to various industries around NCR.

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

The academic calendar is designed by the university at the beginning of each academic session which is to be followed by each affiliated college. The academic calendar by the university includes: • Commencement of classes. • Last date of admission • Last date of submitting admission list by the college to the university • Last date of submitting enrolment form/exam form for regular and carry over exams • Last date of submitting examination fee • Last date of submitting sessional marks • End semester theory examination date • End semester practical exam dates • Submission of PE (practical exams) marks • Evaluation of answer scripts • Summer training/ Internship • Commencement of next semester dates Ajay Kumar Garg engineering college strictly follows the university calendar which includes: • Commencement of odd and even semester classes. • Dates for internal examination • Sending of internal marks • Sending of sessional marks • Dates for end semester examination • Tentative dates for the publication of results Before the commencement of each academic session, Director conducts a meeting with the HoDs of various departments across the institution for devising an academic planner. The Academic planner displays all the academic events scheduled for an academic session in synchronism with the examination schedule of the University. These scheduled events include class tests, Sessional tests, pre-university tests, a list of holidays, etc.

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)

https://www.akgec.ac.in/student-performance-and-learning-outcomes/

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

00	BTech	CE	133	124	93.23
10	BTech	CSE	197	190	96.45
31	BTech	ECE	180	177	98.33
32	BTech	EI	25	23	92.00
21	BTech	EN	113	112	99.12
13	BTech	IT	126	117	92.86
40	BTech	ME	196	187	95.41
14	MCA	MCA	87	82	94.25
10	Mtech	CSE	7	7	100
31	Mtech	ECE	2	2	100
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2.7 – Student Satisfaction Survey

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

https://www.akgec.ac.in/student-satisfaction-survey-2/

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
Projects sponsored by the University	365	TEQIP-III of AKTU	3	3
Projects sponsored by the University	365	AKTU	3	3
Projects sponsored by the University	365	AKTU	3	3
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Entrepreneurship Awaerness Camp	IDEA Lab	26/09/2019
6th National Conference on 'Information Technology for Business Transformation' ITBT'19	CSE and IT	08/11/2019
Workshop on Non Destructive Testing Methods	Advance Welding Training Research Centre / CORE	01/10/2019
One Day Workshop on	Advance Welding Training	04/10/2019

Advance Welding Technology	Research Centre / CORE	
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	15/10/2019
Entrepreneurship Awaerness Camp	IDEA Lab	26/02/2020
Internal Smart India Hackathon	IDEA Lab	20/01/2020
Entrepreneurship Awaerness Camp	IDEA Lab	24/09/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	16/10/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	17/10/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	18/10/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	19/10/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	21/10/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	22/10/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	04/11/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	07/11/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	18/11/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	20/11/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	27/11/2019
Workshop on GMAW	Advance Welding Training Research Centre / CORE	27/12/2019
One Day Workshop on Advance Welding Technology	Advance Welding Training Research Centre / CORE	25/02/2020
One Day Workshop on	Advance Welding Training	27/02/2020

Advance Welding Technology	Research Centre / CORE	
Introduction to Automation Technologies	Centre of Excellence in Automation Technologies / CORE	16/11/2019
Introduction to Automation Technologies	Centre of Excellence in Automation Technologies / CORE	19/11/2019

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
LaalTen Tech	Abou Zuhayr Kushagra Varma	20,000 cash prize by GMA Ghaziabad at IIMS Ghaziabad	12/02/2020	Business colnclave
AI powered home/wall decor app.	Rachit Yadav Raghav Bansal	First Runner Up - Startup Innovation Idea Event in GLA University, Mathura, U.P. supported by UP Gov.	29/02/2020	Student Innovation
Ambulon	Rishabh Singh Tarun Raghav	GLA University, Mathura, U.P. supported by UP Gov.	29/02/2020	Incubatee Entrepreneurship
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
TECHNOLOGY BUSINESS INCUBATOR	IDEA LAB-TBI	AKGEC AND EAC PROGRAM SPONSORED BY DST-NIMIT	AMBULON	Medical Service Based	20/08/2019
TECHNOLOGY BUSINESS INCUBATOR	IDEA LAB-TBI	AKGEC AND EAC PROGRAM SPONSORED BY DST-NIMIT	Giftwalaa	innovative product based	12/01/2020
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
1	0	5

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

Name of the Department	Number of PhD's Awarded
Computer Science And Engineering	2

	Electronics And Communication Engineering		4
	Mechanical Engineering		2

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)
National	Civil Engineering	1	Nill
National	Computer Science And Engineering	2	Nill
National	Information Technology	1	Nill
National	Mechanical Engineering	1	1.01
National	MASTER OF COMPUTER APPLICATION	3	Nill
International	Computer Science And Engineering	23	1.78
International	Electronics And Communication Engineering	19	2.07
International	Electrical And Electronics Engineering	6	2.48
International	Information Technology	5	4.14
International	Mechanical Engineering	15	3.08
[View File](#)			

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
Mechanical Engineering	10
Information Technology	3
Electrical And Electronics Engineering	4
Electronics And Communication Engineering	5
Computer Science And Engineering	36
Applied Sciences Humanities	1
[View File](#)	

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	Number of citations excluding self

					the publication	citation
Investigation on friction stir welding of hybrid composites fabricated on Al–Zn–Mg–Cu alloy through friction stir processing	Namrata Gangil, Sachin Maheshwari, Arshad Noor Siddiquee, Mustufa Haider Abidi, Mohammed A El-Meligy, Jabair Ali Mohammed	Journal of Materials Research and Technology	2019	Nill	YES	29
In-situ wire-feed additive manufacturing of Cu-Al alloy by addition of silicon	Yanhu Wang, Xizhang Chen, Sergey Konovalov, Chuanchu Su, Arshad Noor Siddiquee, Namrata Gangil	Applied Surface Science	2019	Nill	YES	38
Energy saving analysis of the hydrostatic drives used in the rotary head system of the blast hole drill rig	Dr. Alok Vardhan	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Sage	2019	Nill	NO	0
Theoretical and experimental studies of the steady-state performance of a primary and secondary-controlled closed-circuit hydrostatic drive	Dr. Alok Vardhan	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Sage	2019	Nill	NO	2
Dynamic analysis	Dr. Alok Vardhan	Proceedings of the	2019	Nill	NO	7

| of a closed-circuit hydraulic drive system used in the rotary head of blasthole drilling machine using MATLAB-Simulink environment | | Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, Sage | | | | |

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Investigation on friction stir welding of hybrid composites fabricated on Al–Zn–Mg–Cu alloy through friction stir processing	Namrata Gangil, Sachin Maheshwari, Arshad Noor Siddiquee, Mustufa Haider Abidi, Mohammed A El-Meligy, Jabair Ali Mohammed	Journal of Materials Research and Technology	2019	44	29	Yes
In-situ wire-feed additive manufacturing of Cu-Al alloy by addition of silicon	Yanhu Wang, Xizhang Chen, Sergey Konovalov, Chuanchu Su, Arshad Noor Siddiquee, Namrata Gangil	Applied Surface Science	2019	188	38	Yes
Energy saving analysis of the hydrostatic drives used in the rotary	Dr. Alok Vardhan	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of	2019	32	0	No

head system of the blast hole drill rig		Process Mechanical Engineering, Sage				
Theoretical and experimental studies of the steady-state performance of a primary and secondary-controlled closed-circuit hydrostatic drive	Dr. Alok Vardhan	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Sage	2019	32	2	No
Dynamic analysis of a closed-circuit hydraulic drive system used in the rotary head of blasthole drilling machine using MATLAB-Simulink environment	Dr. Alok Vardhan	Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, Sage	2019	46	7	No

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	3	22	10	45
Presented papers	8	39	0	0
Resource persons	0	1	0	0

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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities

Republic Day	AKGEC Ghaziabad	2	28
Independence Day	AKGEC Ghaziabad	2	20
AKGEC Initiative During COVID-19	AKGEC Ghaziabad	3	Nill
National voterss day	AKGEC Ghaziabad	2	42
Swachh Bharat Abhiyaan	AKGEC Ghaziabad	3	28
Adoption of Kzipura School	AKGEC Ghaziabad	5	Nill
Communal Harmony campaign	AKGEC Ghaziabad	4	1162
International yoga day	AKGEC Ghaziabad	3	43
Unnat Bharat Abhiyaan	AKGEC Ghaziabad	3	Nill
Blood Donation Camp-2020	AKGEC Ghaziabad/Rotary Sahibabad Research and Social Welfare Trust (Blood Bank) and Vardaan Multispeciality Hospital (Blood Bank), Ghaziabad	4	392
View File			

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
Teachers day celebration	Felicitated as a teacher for contribution in academics by AKTU, Lucknow	Dr. APJ Abdul Kalam Technical University, Lucknow	10
AICIE - Utkrist Sanshan Vishwakarma Award 2020	Third Rank for its significant contributions in Category- How innovatively you are conducting classes for students of your institution during lockdown period against the spread of COVID-19 M P POONIA Vice Chairman RAJIVE KUMAR Member Secretary across	AICTE	3650

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 activites	Number of students participated in such activites
Republic Day	AKGEC Ghaziabad	Republic Day	2	28
Independence Day	AKGEC Ghaziabad	Independence Day	2	20
AKGEC Initiative During COVID-19	AKGEC Ghaziabad	AKGEC Initiative During COVID-19	3	Nill
National voterss day	AKGEC Ghaziabad	National voterss day	2	42
Swachh Bharat Abhiyaan	AKGEC Ghaziabad	Swachh Bharat Abhiyaan	3	28
Adoption of Kzipura School	AKGEC Ghaziabad	Adoption of Kzipura School	5	Nill
Communal Harmony campaign	AKGEC Ghaziabad	Communal Harmony campaign	4	1162
International yoga day	AKGEC Ghaziabad	International yoga day	3	43
Unnat Bharat Abhiyaan	AKGEC Ghaziabad	Unnat Bharat Abhiyaan	3	Nill
Blood Donation Camp-2020	AKGEC Ghaziabad/Rotary Sahibabad Research and Social Welfare Trust (Blood Bank) and Vardaan Multispeciality Hospital (Blood Bank), Ghaziabad	Blood Donation Camp-2020	4	392

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
Collaborative research in inovation program	Dr. Namrata Gangil	TEQIP-III of AKTU	365
Collaborative research in inovation program	Dr. Sonam Gupta/Ms. Lipika Goel	AKTU	365
Collaborative	Archita	TEQIP-III of AKTU	365

research in inovation program	Goyal/Anubha Gupta		
Visvesvaraya Research Promotion Scheme	Dr. P. K. Chopra/Dr. Aruna Tyagi	AKTU	730

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Internship	ADWARE TECHNOLOGIES Pvt Ltd.	01/01/2020	30/06/2020	1
Internship	Internship	AKGEC, GHAZIABAD	30/12/2019	08/02/2020	704
Internship	Internship	AMAZON	01/01/2020	30/06/2020	2
Internship	Internship	BUAAA INDUSTRIES PVT LTD	01/01/2020	30/06/2020	1
Internship	Internship	CENTRE FOR RAILWAY INFORMATION SYSTEM	01/01/2020	30/06/2020	1

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Institute of Electronics and Telecommunication engineers	24/04/2019	To promote high end multidisciplinary engineering tools and technologies among youth	4

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
1175	1293.43

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added

Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
KOHA	Fully	5.018002	2014

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	96321	33634329	12086	4218418	108407	37852747
Reference Books	6981	2918058	428	157504	7409	3075562
e-Books	262014	100300	Nill	Nill	262014	100300
Journals	110	348006	Nill	Nill	110	348006
e-Journals	660	100005	Nill	Nill	660	100005
CD & Video	6639	Nill	352	Nill	6991	Nill
Library Automation	1	29500	Nill	Nill	1	29500
Weeding (hard & soft)	22333	11214128	Nill	Nill	22333	11214128
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. Sukhwinder Singh Dhillon	Electrical Machine II	Aktu Digital Education You Tube	14/09/2019

| Dr. Sarika Kalra | Electric al Machines-I | Aktu Digital Education You Tube | 26/11/2019 |
| Dr. Neelesh Kumar Gupta | Digital Signal Processing (REC-503) | Aktu Digital Education You Tube | 14/09/2019 |

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	1588	35	1588	6	1	38	8	350	0
Added	103	0	103	0	2	0	0	650	0
Total	1691	35	1691	6	3	38	8	1000	0

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

1000 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
AKGEC Recording Studio	https://www.akgec.ac.in/akgec-digital-school/
E- Journal/ Books/ NPTEL Lecture	https://www.akgec.ac.in/about/infrastructure-visual-tour/library/

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 incurredon maintenance of physical facilites
473	317.51	1253.25	1331.18

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)

Established Systems and Procedures for Maintaining and Utilizing Computers 1. Computers are purchased against requirements from Departments and Sections centrally by the Central Support Cell 2. All maintenance of computers and other IT equipment is the responsibility of the Central Support Cell 3. All complaints about repair are checked in house by the Central Support Cell and repair is completed in house, if possible else the equipment is sent to the outside vendors for repair 4. Old computers and equipment are replaced on a periodic basis Established Systems and Procedures for Maintaining and Utilizing sports complex A dedicated system to ensure scheduled maintenance and repair of sports complexes and infrastructure exists in the college. The college Sports

Officer is the main advisor to Dean Admin for necessary maintenance of sports associated requirements. The necessary procurement of sports items is done in consultation with Dean Hostel and Dean Students Welfare through Chief Purchase Officer. Established Systems and Procedures for Maintaining and Utilizing classrooms All the classrooms are cleaned daily and furniture is wiped off by the designated Safai Karamcharis in the morning before starting of the classes. All the Electrical switches, fans, etc are checked and repaired on a requirement basis. The mikes are distributed to faculty before starting each class. The distribution point has a sufficient number of charged batteries and mikes to meet the requirement. A buffer stock of batteries and mikes is maintained for quick replacement of unserviceable ones. Established Systems and Procedures for Maintaining and Utilizing Library Library Automation: The library is managed by computerized automation through library management software KOHA, which is an integrated multi-user library management system that supports all in-house operations of the library with Barcode. The KOHA consists of modules on acquisition, cataloguing, circulation, periodical, article indexing, and Web OPAC. Requisition of Books: Requirements of books are generated on basis of the following: 1. Requirements specified in the syllabus 2. Courses operating in colleges with a number of admitted students. 3. Requirements given by faculty/departments/students etc. Requirements for the books from the faculty member as well as students are received on Book Requisition. The titles of books and number of copies required are sought after finding the availability of the title, number of copies in the library in consultation with Dean Library. Then approval for the purchase of the books is obtained from the Dean Library and Director-General. After that order for recommended books is prepared. Then a purchase order is placed on the book suppliers on the basis of discounts and services. Technical Processing of Books: After the bill is processed, the documents are subjected to technical processing. This includes: a) Classification through Dewey Decimal Classification Scheme, 21st edition. b) Feeding of book data in KOHA Library Management Software for cataloging purposes/Search. c) Fixing book label, barcode, due date slip, and stamping on back of the title page, secrete page of the book, and Last page of the book. d) Shelving of documents according to Classification

https://www.akgec.ac.in/maintenance-of-campus-infrastructure/

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	M Tech Scholarship/freeship	23	1300000
Financial Support from Other Sources			
a) National	Scholarship Fee Reimbursed by Govt. of UP	1052	67543148
b)International	NIL	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved

Understanding Relationships through Self-Exploration	16/09/2019	51	AKGEC, Ghaziabad
Webinar on "Impact of Covid-19 on Global Environment"	05/07/2020	100	AKGEC, Ghaziabad
Yoga Day	21/06/2020	100	AKGEC, Ghaziabad
Cypher'20" – a Workshop on Web security	29/02/2020	72	AKGEC, Ghaziabad
Personality Development Program	25/07/2019	959	ADVAIT LIFE EDUCATION
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2020	Personality Development Program	0	959	0	533
2020	Mentorship Classes for Competitive exams	154	0	84	0
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
DLT LABS	432	31	CAPGEMINI	197	45
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme

	enrolling into higher education				admitted to
2020	1	B.Tech	CE	IIT Madras	MS
2020	1	B.Tech	CE	NATIONAL INSTITUTE OF TECHNOLOGY, JAMSHEDPUR (NIT)	M.Tech
2020	1	B.Tech	CE	GOVT ENGINEERING COLLEGE JAGDALPUR, CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY	M.TECH (STRUCTURAL ENGINEERING)
2020	1	B.Tech	CSE	INDRAPRASTHA INSTITUTE OF TECHNOLOGY, DELHI (IIIT-D)	M.TECH (CSE)
2020	1	B.Tech	CSE	INDIAN INSTITUTE OF MANAGEMENT, BODH GAYA, BIHAR (IIM BIHAR)	MBA
2020	1	B.Tech	CSE	THE UNIVERSITY OF MELBOURNE, AUSTRALIA'	MASTER OF DATA SCIENCE
2020	1	B.Tech	CSE	ULM UNIVERSITY, GERMANY	2 YEAR MASTER'S PROGRAM COGNITIVE SYSTEMS
2020	1	B.Tech	CSE	INDIAN INSTITUTE OF MANAGEMENT SIRMAUR (IIM SIRMAUR)	MBA
2020	1	B.Tech	ECE	INDIAN INSTITUTE OF FOREIGN TRADE	MBA
2020	1	B.Tech	ECE	UNIVERSITY OF DELHI	M.TECH. (MICROWAVE ELECTRONICS)
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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	69
CAT	15

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

Activity	Level	Number of Participants
Fashion Parade, CONFLUENCE	Inter College	5
Ho Revo, RUBAROO19	Inter College	10
Volleyball	Inter Department	8
Football	Inter Department	14

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Gold	National	7	3	Nill	Nill
2019	Silver	National	8	Nill	Nill	Nill
2019	Bronze	National	2	3	Nill	Nill

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

There are a number of departmental and extra-curricular societies which provides engagements to the students in various activities. The societies are involved in organization of various activities and in participation at various events. The organization of an event develops the administrative skills in students. Departmental Societies are: Society Department Link for more information and society activities Conatus Computer Science https://www.akgec.ac.in/life-akgec/societies/departmental-societies/conatus/ Nirmaan Civil Engineering https://www.akgec.ac.in/life-akgec/societies/departmental-societies/nirman/ Oorja Electrical and Electronics Engineering https://www.akgec.ac.in/life-akgec/societies/departmental-societies/oorja/ Phoenix Electronics and Communication Engineering https://www.akgec.ac.in/life-akgec/societies/departmental-societies/phoenix/ Samveg Mechanical Engineering https://www.akgec.ac.in/life-akgec/societies/departmental-societies/samveg/ Extra-curricular Societites: Society Activity Link for more information and society activities Euphony Music https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/euphony/ Footprints Arts, Literature, Photography and Designing https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/footprints/ Horizon Techno- managerial society of the college that aims at enhancing both technical and managerial skills of the potential students of the college. https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/horizon/ Goonj Dramatic Society https://www.akgec.ac.in/life-akgec/societies/extra-

curricular-societies/goonj/ Renaissance Ethical cum Patriotic Society of college https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/renaissance-2/ Taal Dance Society https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/taal/ Verve Fashion Society https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/verve/ Besides these societies college also have student chapters of the following: CSI https://www.akgec.ac.in/life-akgec/societies/student-chapters/csi/ ISTE https://www.akgec.ac.in/life-akgec/societies/student-chapters/iste/ SAE India https://www.akgec.ac.in/life-akgec/societies/student-chapters/sae-india/ ? Along with the involvement of the students in various societies, every class have their class representatives (Class CRs) who are responsible for communications between the class and the department, the Training Placement class representatives (T P CRs), who are responsible for communication between class and the Training Placement Department and coordinate in respect of the placement process. ? A Discipline Committee (DC) exits at college level involving the students of all the years except first year. ? To ensure calm and peaceful academic atmosphere in the campus. ? To avoid physical confrontation among students. ? To ensure all the students wear ID Cards while they are in the campus. ? To monitor the movement of the students in the college and prevent students loitering around in the corridors during the college working hours. ? To inculcate Value Education as an integral part of life, AKGEC, during the year 2017, established a Value Education Cell (VE Cell) under the guidelines of AKTU. The VE cell also incorporates students for various administrative roles such as conduct of • Evening workshops on the following topics o "Understanding Relationships through Self-Exploration". o "Practicing Awareness of thoughts" o Mutually Fulfilling Communication • Online Webinars • Celebrating The Earth Day. • Quiz of the Week • Drishti- a short video based event where perceptions of the participants are evaluated based on holistic wisdom. • Promoting the above event using social media ? Students are also members in Prctoral and anti-ragging squad along with the faculty members with various administrative roles. ? Students are also part of college Software Development Centre where they themselves handle a number of projects.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni interaction has always been directly and indirectly influencing the key Aspects of an institutional success, the various aspects in which the alumni's of the institute is reflected by suggestions towards changes in the curriculum to make the current student population in tune with the current industry requirements. The Alumni can clearly express the relevance of the curriculum in the job scenario, also the teaching learning process and the development of Infrastructure and Learning Resources through donations and maintain donations of their Alumni which includes funds for new Physical facilities, research projects, maintenance of current facilities. There are numerous such aspects through which the alumnus can contribute to its alma mater. One of the strengths of AKGEC is, and has always been, its alumni. To establish, maintain and nurture a sustained, lifelong, and mutually beneficial relationship with its alumni, AKGEC formed an Alumni Association in 2005. The alumni association at AKGEC has been active since its inception and the various alumnus of college are consistently writing their success stories, and are contributing towards AKGEC, affiliated University and the progress of the country on social and economic grounds and keeping up the spirits of being an AKGECIAN. Recently our alumni's Neeraj Srivastava, 2005-2009 B. Tech graduate from Electronics and Communication Engineering, received AKTU distinguished alumnus award for year 2020. There are many such success stories to discuss many of them can be found on our alumni portal (www.akgec.ac.in/alumni-success-stories/) and LinkedIn

network (akgec.almaconnect.com/network_details), various alumni are invited to college frequently for the formal talks with their juniors. The success stories of the alumnus motivate the students, and their experiences help them to identify the righteous path towards their carrier. Since its formation, the college has been actively involved in facilitating networking amongst alumni for social and professional synergy. AKGEC organized its first annual alumni meet on 02 April, 2005. Since then the meet is organized every year, but during this year due to Covid-19 alumni meet was not held.

5.4.2 – No. of enrolled Alumni:

1067

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

1068000

5.4.4 – Meetings/activities organized by Alumni Association :

No Meetings/activities organized by Alumni Association due to Covid-19

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)

The Director is the administrative head of the College. However certain administrative functions are delegated to the Heads of Departments and various functionary committees to ensure a decentralized governance system. The Governing body has also approved of the constitution of Committees involving Staff members, which perform an advisory role in matters within their designated sphere of activity and also help in the execution of administrative decisions. The college promotes a culture of participative management. The management of the college rests with its Governing Body, whose member, is appointed in accordance with the guidelines provided by Dr. A.P.J. Abdul Kalam Technical University, Lucknow and AICTE, New Delhi. The Director is the academic and administrative head of the Institution and also the member secretary of the governing body.The Heads of Departments are responsible for the daytoday administration of the departments and report directly to the Director. Additionally, every department has distributed various duties among faculty members which play an important role in various institutional functions. These duties have been discussed in departmental meetings conducted and the minutes of these meetings are recorded.

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
Industry Interaction / Collaboration	The college has interface with the industry at many levels including the following: 1. Industrial/Summer internship of students. 2. Student projects· sponsored by the industry. 3. Introduction of extra teaching modules proposed by the industry in the college. 4. Industrial visits. 5.

Campus placements. 6. State of the Art Centres of Excellence in collaboration with eminent multinational companies for summer internship of all B.Tech. Students after I, II and III year, the college has linkages with a large number of PSUs and Private sector industry in concerned disciplines. The exposure and association with the industry after the prefinal year provides the students with the requisite orientation for the specialized course and project work which are part of the final year curriculum. A number of students are involved in doing projects with the industry and the college encourages students to undertake industry relevant project work. In the revised AICTE curriculum B.Tech VIII semester students can join the internship in various national and multinational companies. With the varied needs of each type of industry, it will never be possible for any curriculum to meet the exact requirement of all industry. There will inevitably be a gap between the training imparted at any academic institution and the job requirements. This gap is filled by providing inhouse training to the fresh entrants by the industry. The college has collaborated with industry and introduced modules designed by them in the curriculum. The college is part of INFOSYS campus connect programme. Under this programme, INFOSYS has designed and provided a 65 hrs module for which the faculty has been especially trained by the firm. College is committed to fulfilling the dreams of all those who graduate from College. Objective of the placement cell is to place the students in good companies. This is achieved through campus selections conducted in the college for which the students are trained in aptitude, technical and soft skills, much ahead of campus selections. The Cell believes in overall development of the students personality, which will help them to achieve a rewarding career. The only institution to have the following State of the Art Centres of Excellence in collaboration with eminent multinational companies to provide industry relevant training and project exposure which offers Global

	Certification to enhance global employability of students. AKGECKUKA Industrial Robotics training Centre. AKGECNI LabVIEW Academy. AKGECBOSCH Rexroth Centre of Competence in Automation Technologies. AKGECJANATICS Industrial Pneumatics Knowledge Centre. AKGECSiemens Product Lifestyle Management Centre of Excellence. AKGECAIA Competence Development Centre in Integrated Automation. AKGECAMC Advance Manufacturing Centre AKGEC Fronius Advance Welding Training and Research Centre AKGEC SKILLS FOUNDATION (ASF) a joint initiative of Ajay Kumar Garg Engineering College and National Skill Development Corporation (NSDC), under Ministry of Skill Development Entrepreneurship, has been instrumental for conducting skill development programs for 10th/ 12th pass, ITI/Diploma and Engineering graduates under Skill India Mission of Government of India. ASF strives to encourage youths to come forward for developing their skills specifically in the domain of automation, robotics, manufacturing and fabrication, so that the disconnect between demand and supply of skilled manpower in the Industry can be bridged, productivity of the existing workforce can be increased and the training certification needs of the industry can be aligned. AKGEC skills offers courses at par with global didactic concept, in line with the national Occupational Standards (NOS) and Qualification packs (QP). Its objective is to offer skill development trainings through industry institution collaboration to empower youths under Certification by nationally and internationally recognized Industries /Societies / Industry Associations /sector skills Councils (ASDC, CGSC, ESSCI, IASC) etc.
Human Resource Management	The college has documented procedure for recruitment, training and development, motivation and appraisal for the faculty and staff. Our policy is to obtain the high quality human resources for academic and non academic activities. The College has a well defined and detailed recruitment policy. The main aspects include getting the widest spectrum of available candidates through advertisements in national, newspaper

	and on the Internet, properly constituted selection board, thorough interview including presentation, proper evaluation of performance and finally the selection. The interview board consists of the chairman of Board of Governors, Director, Dean Academics, Concerned HoD, one specialist in the field from I.I.T or reputed colleges and one nominee of AKTU, Lucknow. Attractive remunerations are provided along with a good working environment to attract the best talent. The institute grants Duty leave, LWP, CL, EL, SL, Maternity leave (for female members). Study leave is also provided for pursuing higher education. Summer vacations are also given as per norms.
Library, ICT and Physical Infrastructure / Instrumentation	Spread over 40 acre campus, the college has excellent infrastructure. The academic and administrative blocks, hostels and faculty residences surrounded by lush green lawns provide a conducive environment . The academic complex spanning over the main block, back block, lecture theatre block, mechanical engineering block, CSE and IT block is well provided with fully furnished lecture halls, well equipped laboratories, computer centre, library, seminar halls and faculty rooms to facilitate smooth conduct of courses in a befitting manner. College is wifi enabled campus includes faculty residences and spacious well furnished hostels accommodation for Boys and Girls. The college provides a wide range of books and journals (including ejournals) for faculty and students to enhance and develop their talent. The college has sufficient volumes of all books in the issue section with some less frequently referred books kept in the reference section of the library. Each department also has its own library to facilitate easy access. The college also gives 50 percent subsidy to faculty members for purchase of personal books to encourage a healthy habit of reading beyond the curriculum needs. The library is also a member of British Council Library and DELNET. The library is open for the students upto 9 pm daily and up to midnight during examination period. In addition to the central library, the departments maintain their own departmental libraries. Hostel libraries, managed by

	the students, maintain magazines, novels and motivational reading material. The library is fully automated with library management system software under KOHA.
Research and Development	AKGEC offers holistic environment for research. The institution allocates funds centrally for research and development. Every department prepares a budget which includes budget allocation for research activities. Same is approved and spent towards: a) Procurement of research equipments b) Upgradations of existing labs in terms of newer technologies. C) Procurement of vital components for execution of final year projects. In the past years a good amount of investment has been carried out across the institute. Faculty members are motivated to publish research papers, to attend conferences and seminars and also awarded for the same.
Examination and Evaluation	By the Institution: AKGEC has centre of examination, which is headed by Senior Professor with a team of faculty members. Every semester three internal exams are conducted by considering the Course Outcomes(COs) and Blooms Level as per NBA norms. A HoD meeting byb the Director is conducted before every semester examination regarding the smooth conduct of examination rules, where every HoD give their suggestion on various aspects of examination and evaluation based upon the previous examinations. Students are continuously evaluated through Class tests, viva, presentations and assignments to create a good examination atmosphere in the college. By the University: University (AKTU) ensures the examination process that is going on is strictly adhering the norms laid by the University. In this regard, University appoints Nodal center in charges, Centre Superintendent, Flying squads which are independent of each other. These entities cross verify the procedures and audit one another. This ensures smooth operations. Further these members are assigned rotational duties within a regular interval of number of examinations to ensure impartial supervision.
Teaching and Learning	AKGECs primary objective is to develop constructive and comprehensive

	teaching learning environment for faculty as well as students. This is achieved by proper planning and execution of quality teaching. Each faculty prepares notes for the subject alloted to them. The IQAC team which comprises of HOD and deparmental MR conduct periodic auditing of faculty members in terms of lecture delivery schedule. Feedback for each faculty is taken by students at the end of each semester to judge the teaching style of faculty. Once/twice a semester the HODs visits the lecture of each faculty and prepares the feedback of their teaching skills. We have well qualified and experienced faculty members. As education is a never-ending process, faculty members are motivated to pursue PhD programs and/or encouraged to take up the research work individually or in collaboration for increasing their professional skills. Faculty members are motivated to innovative teaching methodologies. The entire campus of AKGEC is Wi-Fi enabled. Central library is IT facility enabled where students can utilize online resources to enhance their knowledge building.
Curriculum Development	The institution is affiliated to APJ Abdul Kalam Technical University, Lucknow, U.P. Any changes /upgradation in the curriculum are solely handled by the university in consultation with members of BOS and BOG suggestions incorporated from affiliated institutions through postal communication and physical meetings. AKGEC has three BOS members who are representing Mechanical, Electronics Communication and Civil departments. However institute makes following special efforts for the professional development of its faculty to facilitate effective curriculum delivery: 1. Detailed lecturewise schedule and course material (containing preferably hand written notes) are prepared by individual faculty for the specific subjects alloted to them. Certain gaps in curriculum are filled by teaching extra topics. 2. Classrooms are equiped with modern teaching aids like smart boards with LAN connection, projectors with computer connectivity and audiosystems with microphone.3. The attendance registers are maintained by the

	individual faculty members and are closely inspected bythe Head of the department once in a month.4. Regular meetings are conducted by HODs with their department for the coverage of topics as per syllabus. Extra initiatives are taken by the institution for effective curriculum delivery like, Library (Deparment and Central), Software Development Center (SDC) , many centres have been developed under TIFACCORE to bridge gaps between institution and industry.
Admission of Students	AKGEC is affiliated to A.P.J. Abdul Kalam Technical University, Lucknow. 85 of seats are filled by University through counseling on the basis of the State Entrance Exam (UPSEE) and the remaining 15 seats are alloted as NRI/management quota to meritorious students based on their rank in AKTU/JEE Entrance Exam and PCM percentage of the 12th class.

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

E-governace area	Details
Examination	No e-governance
Planning and Development	The ever changing demands of Engineering graduates in the market, takes AKGEC to have a well planned academic environment. This academic environment in audited time to time by the IQAC audits. This ensures the quality teaching, skill enhancement of faculty and students as a whole. Outcome Based Education (OBE) is the main motive of academic processes. This is ensured by the following: All faculty rooms are equipped LAN connection, furniture, pin boards etc. Wifi connectivity is also available throughout the campus. All classrooms are equipped with smart boards, LCD projection systems, LCD screens, USB ports for Laptop connectivity, Wireless Audio systems and Green boards. These facilities enhance lecture delivery and effective communication.
Administration	No e-governance
Finance and Accounts	The college uses Tally software for e-governance for transparent functioning of Finance and Accounts department of the college.
Student Admission and Support	No e-governance

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	Mr. Ritesh Sharma	FDp on Values Relationship and Ethical Human Conduct- for Happy and Harmonious Society Ethics	TA DA Bill (IIT Kanpur)	13812
2019	Pradeep Mittal	Product Realization Using 3D Printing	TEQIP AKTU Lucknow	10200
2019	Dr. Parul Verma	FDP on Human Values at IIT Kanpur	IIT Kanpur	14000
2019	Mr. Atri Tyagi	FDP on "Condition Assessment and retrofitting of civil Engineering structures for operational and Extreme Loads "	IIT Kanpur	8568
2019	Dr. Binod Kumar Singh	FDP on "Condition Assessment and retrofitting of civil Engineering structures for operational and Extreme Loads "	IIT Kanpur	8700
2019	Mr. Ritesh Sharma	Executive Leadership Program	TA DA Bill (Kosi Mathura)	4400
2019	Mr. Harsh Mohan Sharma	FDP on Universal Human Values Professional Ethics	TA and DA Bill (HCST, Mathura)	12260
2019	Dr. Namrata Gangil	Investigation of in-process traverse force evolution during surface composite fabrication on	GL Bajaj Institute of Technology and Management, Greater Noida	5000

		Al-Zn-Mg-Cu alloy through friction stir processing, International Conference on Computational and Experimental Method in Mechanical Engineering 2019 (ICCEMEE		
2019	Dr Pratima Singh	FDP on Data Anyltics at IIT Kanpur	IIT KANPUR	9415
2019	PRIYANKA	FDP in IIIT ALLAHABAD	IIT ALLAHABAD	10998
		[View File]()		

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)
2019	Advanced Foundation Design	NA	08/07/2019	12/07/2019	25	Nill
2019	NA	Recording with help of faculty and of all experiment so revision brush up of experiments done	01/07/2020	15/07/2020	Nill	2
2019	NA	Revise lab manual and write up a lab file for revision and understanding of theoretical explanation	18/07/2020	22/07/2021	Nill	2
2019	Modern C	NA			33	Nill

			13/01/2020	17/01/2020		
ommunicati on Technol ogies-2020						
2019	FDP on Current Research Trends in Artificial Neural Networks	NA	08/07/2019	12/07/2019	50	Nill
2019	NA	Staff De velopment Programme (Python Pr ogramming Language)	02/07/2020	07/07/2020	Nill	7
2019	FDP ON ADDITIVE M ANUFACTURI NG	NA	26/08/2019	30/08/2019	40	Nill
2019	National Conference On Mechanical and Automation Engineerin g	NA	07/02/2020	08/02/2020	36	Nill
2019	Power System Operations and its Control	NA	13/01/2020	17/01/2020	19	Nill
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 6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP(level 2) on UHVPE	1	25/06/2019	02/07/2019	8
one week workshop on the subject "Manufacturing for Industry 4.0" under Advanced Knowledge in Nutshell (AKIN) at Indian Institute of Technology,	1	15/07/2019	19/07/2019	5

Ropar from 15th to 19th Jul 2019				
Power System Operations and its Control	19	13/01/2020	17/01/2020	5
8 days workshop of UHVPE (Level-1) at IPEC, Ghaziabad from 4th Jul to 11th Jul 2019.	1	04/07/2019	11/07/2019	8
Sixth National Conference on Information Technology for Business Transformation ITBT19	5	08/11/2019	09/11/2019	2
FDP On Modern Communication Technologies	32	13/01/2020	17/01/2020	5
Faculty Development Programme (Refresher Workshop) on Human Values and Professional Ethics approved by AKTU Lucknow at Ajay Kumar Garg Engineering College, Ghaziabad from 2nd Dec to 12th Dec 2019.	2	02/12/2019	12/12/2019	10
Training Programme (Skill up-gradation) on "Product Realization using 3D Printing" for the faculties of affiliated engineering colleges at IIT, Kanpur during 28th Sep to 2nd Oct 2019	1	28/09/2019	02/10/2019	5

| one week FDP on the subject "Solar Energy – A Sustainable Future" under TEQIP-III at Indraprastha Engineering College, Ghaziabad from 15th to 19th Jul 2019 | 1 | 15/07/2019 | 19/07/2019 | 8 |
| training programme on "Manufacturing Process" under the Pedagogical Approaches in Graduate Engineering Education at IIT Kanpur from 21st Aug to 25th Aug 2019. | 2 | 21/08/2019 | 25/08/2019 | 5 |

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
42	42	11	11

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Leave Encashment, Gratuity, Group Personal Accidental policy	Leave Encashment, Gratuity, Group Personal Accidental Policy, Reimbursement of Tuition Fee, Uniform	Medical Insurance

6.4 – Financial Management and Resource Mobilization

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

From the year 2019-20, the college is conducting external audit from Anil Vaish and Co., Ghaziabad. The auditors visit periodically to conduct statutory audit. The observations noted by them are discussed with accounts team and if required with the Director General / Management Members. However, the present statutory auditor can give suggestions for better functioning of college to the Director General / Management members. The statutory audit is based on the accounting vouchers / papers / bank statements and other relevant papers which are necessary for conducting statutory audit. After the auditors are satisfied as per accounting guidelines, the they sign the annual balance sheet.

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	Funds/ Grnats received in Rs.	Purpose

funding agencies /individuals			
NIL	0		NIL

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6.4.3 – Total corpus fund generated

00

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	Nill	Yes	IQAC
Administrative	No	Nill	Yes	Dean Administration

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

Students are continuously monitored/counceled for their short attendance and the same is communicated to their parents to ensure the students which are enrolled complete the course succesfully. Letter regarding short attendance and debarred from sessional tests are sent to parents from time to time. Communication is through 1. Display on the notice boards 2. Letter to parents. 3. Telephonically informing the parents about the progress of their ward. 4. Online HoD interaction meetings with parents.

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

(1) a) Five Days Staff Development Program (SDP) on "Latest Professional Technical Skills in ECE" (b) AKGEC, Ghaziabad, DesignTech Systems Ltd. New Delhi, CoreEl Technologies, New Delhi, (c) 10th - 14th June 2019 Session: 2019-20 (d) Mr. Kishanveer, Mr. Raj Kumar, Mr. Brajesh Shishodia, Mr. Rajeev Kumar Tyagi, Mr. Sateesh Vishwkarma, Mr. Vinod Kumar Sharma Mr. U. S. Gahlaut (2). "Hands on Training on Java Programming ". (a).AKGEC, Ghaziabad, (b) 15/07/2019 to 19/07/2019, (c) Sunil Kr.Jha Ravi Dutt Hemant Kr. Pathak Abhishek Lokesh Kumar Yogendra Singh Yogesh Kumar (3) Staff Development Program, (a) AKGEC, Ghaziabad, (b) 30.7.19, (c)Aftab Alam Dharmendra Kaushik Prabhat Shukla Rajesh Kumar

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

1. Training Placements: The Placement Cell plays a crucial role in locating job opportunities for Under Graduates and Post Graduates passing out from the college by keeping in touch with reputed firms and industrial establishments. We have been successful in maintaining our high placement statistics over the years and the fact that our students bear the recession blues with record breaking placements itself is a testimony to our quality. The Placement Cell organizes career guidance programmes for all the students starting from first year. The cell arranges training programmes like Mock Interviews, Group Discussions, Communication Skills Workshop and PDP classes etc. It also invites HR Managers from different industries to conduct training programmes for final year students. 2. Augmenting Research Environment among Faculty Members: To encourage high-quality research among faculty members and students, the organization provides state-of-the-art infrastructural resources for students and faculty to conduct cutting-edge research. As evidenced by patents, consultancies, and publications in high impact factor journals, high quality research is being conducted in a number of fields (particularly in ECE, CSE, ME and IT). A total of 76 individual research papers and 59 Books Chapters in

edited Volumes / Books published, and papers in National/International Conference Proceedings during the year. A total research grant of Rs. 9 lacs received throughout the assessment period. 3. Faculty with Ph.D: It is clear that economies have become much more innovation-driven. And innovation uses new knowledge to generate value. As a result, the organization promotes more faculty members to pursue Ph.D degrees. Only 25 Ph.D faculties were available in 2018-19, but that number rise to 83 in 2019-20.

6.5.5 – Internal Quality Assurance System Details	
a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Feedback from students of odd sem 2019-20	01/11/2019	01/11/2019	01/11/2019	4049
2019	Regular meeting of Internal Quality Assurance Cell (IQAC) odd sem	04/10/2019	04/10/2019	04/10/2019	18
2019	Analysis of Student feedback forms odd sem 2019-20	01/12/2019	01/12/2019	01/12/2019	4049
2019	Academic Administrative Audit (After Pre University Test) odd sem	28/11/2019	28/11/2019	01/12/2019	256
2020	Regular meeting of Internal Quality Assurance Cell (IQAC) even sem	09/01/2020	09/01/2020	09/01/2020	15
2020	Academic Administrative Audit (After Sessional Test) even	17/02/2020	17/02/2020	Nill	256

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
NIL	Nill	Nill	0	0

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
330 KW capacity rooftop on grid type Solar power plant having project cost of Rs. 2,15,98,500 has been installed in the year August' 2016. Total sanctioned load is 1300 K Watt and 330 K Watt is produced by renewable energy solar plants.i.e. 25.38 percent met by renewable energy.

7.1.3 – Differently abled (Divyangjan) friendliness

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

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	22/10/2019	1	Adoption of Kalchhina Village School under Unnat Bharat Ab	Skilled program are required for student of class 10th and 12th	2

					hiyan(UBA)	class	

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

Title	Date of publication	Follow up(max 100 words)
Value Education Cell (Human Values and Professional Ethics Code of conduct)	06/08/2019	Code of ethics and conduct for the students: i. attend UHV courses sincerely and attentively. ii. attend evening workshops conducted by VE Cell. iii. incorporate social welfare in their projects. Code of ethics and conduct for faculty members: i. Understand the competence of the students and make efforts for their improvements. ii. Focus on overall development rather than focusing only on marks and subjects. Code of ethics and conduct for administrators: i. attend UHV FDPs conducted by VE Cell ii. ensure transparent policy keeping the welfare of the students and faculty members. Iii. take feedback on their actions and try to improve if required.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Understanding Relationships Through Self-Exploration)	24/02/2019	28/02/2019	19
Refresher Workshop on Practicing Awareness of Thoughts	05/08/2019	09/08/2019	42
UHVPE workshop for students	16/09/2019	16/09/2019	138
UHVPE workshop for students	23/09/2019	27/09/2019	47
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Landscaping with trees and plants: Our Institution takes more interest in maintaining a green campus and eco-friendliness which provides pure oxygen within the institute. The campus looks green by planting more trees which gives a pleasant feel for the students to learn and for the faculty members to work. 2. Ban on use of Plastic: The institute is a plastic free zone. We encourage students and staff not to use plastic bags and bottles. The security guard makes sure that no one enters the institute campus with polythene bags. 3. Pedestrian Friendly pathways: The goal of these Pedestrian friendly roads is to preserve and enhance pedestrians and to encourage walking as an attractive means of transportation as well as for leisure, recreation and health. 4. Restricted entry of automobiles: Restricted vehicle entry system is fully enabled. Sticker system in place for regular vehicles and one-time access pass is for visitors. 5. Paperless Office: Most of the communications are done by sending mails among the staff members. Circulars and notifications are sent by using electronic methods such as mail, and SMS. For this data transfer a separate mail id is created using an extension @akgec.ac.in, through which inter and intra office communication are sent.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1: Skill development of the students The objective of this initiative is to encourage skill development in youth to align their technical competencies with manpower requirements of modern industries To nurture creativity and innovation in youth to promote entrepreneurship. To provide national and international industrial working exposure to students. To provide knowledge and exposure of advanced technologies such as Robotics, Automation, 3 D Printing etc. The college provides various short and long term internship opportunities to students in Robotics, automation, welding, manufacturing etc. The campus connect program is run by the T P department which is conducted by Infosys. Under this program, Infosys has designed and provided a 65 hours teaching module and a wide range of projects that students take up as a part of the final year project. This program helps students in acquiring skills related to the IT industry. As soft skills play an important role in improving the employability of students. The college has introduced a well structured 100 hours Personality Development Program conducted on weekends by a professional agency. The establishment of this research and development centre is expected to create a unique opportunity to all stakeholders of the institute. The facility so created shall be useful to carry out research/development/training/consultancy related to open source software. The centre will customize the open source software according to the requirements. It will also train the students and facilities of our institute and will involve them in the development and customization of recent open source software. To bridge the gap between industry requirement and academic curriculum of the college. The college has a BigData Centre of Excellence, various Computer Aided Design (CAD) packages like Pro-E and Catia. The above initiatives and measures taken by the college to bridge the gap between industry requirements and academic curriculum have paid very rich dividends in improving the employability of students. The team TECHNOXIANS, a project team of B.Tech students at AKGEC, bagged the first runner up position in the event Shankara Hackathon 2020 held at SIT Jaipur during 28-29 February, 2020. The 36 hour event, sponsored by TEPIQ III, was inaugurated by Hon'ble Governor of Rajasthan Shri Kalraj Mishra Ji along with various other cabinet ministers. The team TECHNOXIANS presented their innovative solution on Smart System to clear the way for ambulances and alert the hospital about the seriousness in advance. The solution was highly appreciated by the jury members. Software Development Centre (SDC), AKGEC, represented the College at Techstars Startup Weekend 2020 powered by Google. The event, a 54-hour event where designers, developers,

marketers and startup enthusiasts come together to share ideas, form teams and launch startups was held from 31 January, 2020 to 02 February, 2020 at IMT Ghaziabad. The event was attended by 70 participants wherein 24 ideas pitched. Of the ten final ideas selected, five were presented by AKGEC SDC teams. Team of AKGEC and IMT students was awarded certification by Google, a free domain name for its members and vouchers for achieving second position in the event. The winning team presented their idea of building an integrated platform for all the NGOs, corporates and professionals – a one stop solution for anyone who wants to contribute to the society. AKGEC Team Members Arnav Jain B.Tech II Year IT Srishti B.Tech II Year EC Muskan Agrawal B.Tech II Year CSE Sachin Prajapati B.Tech II Year EN Best Practice 2: Mentorship Program To create a student centric learning environment and systems to maintain good academic results and to enable students to realize their full potential and graduate with adequate professional competence required by the present day technologically advanced multinational industry. Mentorship program involves problem solving, doubt clearing and topic teaching by the students of final year and third year to their respective junior students. A mentorship section is made by selecting fifteen students from each section which involves top students as well as bottom students of the class. Each mentorship section consists of thirty students from two sections. These students are selected by the faculty coordinators based on their academic results and overall performance. This gives support to weak students to improve their results. Every week there is one class of one subject. The student mentors are also given some stipend from the college. One other benefit of this program is the final year and third year mentor can review the concepts of subjects to qualify their competitive exams. Not only the junior student but the mentor is also benefitted by the program. The report is made every week and presented before the Head of Department for overall achievement of the program. Also the performance of every student is monitored on the basis of internal exams. The overall quality improvement is evident from the high class averages and a large number of students of the college featuring in University merit lists. The college has consistently maintained itself in the highest category of ?3? of the University Comparative Gross Average Intellectual Attainment Chart. As a whole the system is well planned the resources are available in college. There may be problem with the students on their personal issues, which can be solved by proper counseling by the faculty coordinators. 1- Training of bright Students to provide their best efforts to weak students. 2- To develop a framework for alignment of continuous interaction of weak and bright students during each semester.

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

https://www.akgec.ac.in/iqac/7-2-best-practices/

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

Academic performance of students in University Examinations YEAR STUDENT NAME BRANCH 2019-2020 Srishti Singh ECE Overall Best Result of AKGEC is one area distinctive to its priority and thrust. The result of students graduating during the academic year 2019--20 has been exceptionally good. In B.Tech, 93 students have passed, out of which 95 passed with 1st division including 58 with honors. In addition to overall good results, the college has a remarkable achievement in terms of number of students in university merit lists. For the session 2019-20, the college has eight B.Tech and one M.Tech students in the top 10 merit list of AKTU with one Chancellor's (gold), two silver and one bronze medal. The college has been consistently having the maximum number of

students in merit list and number of medalists over the last few years. Also, it is noteworthy that the Chancellor's Medal, for the highest marks across all branches, has been bagged for the fifth consecutive time by our student Srishti Singh. The Chancellor's Medal has been won only by our college students since its inception five years back. YEAR STUDENT NAME BRANCH MEDAL RANK 2019-2020 ARUN KUMAR MAURYA Electrical and Electronics Engineering SILVER 02 2019-2020 ANIRUDDH SHUKLA Electronics and Instrumentation Engineering SILVER 02 2019-2020 AJAY SAINI Electronics and Instrumentation Engineering BRONZE 03 Modernized Lecture Theatres are equipped with multimedia projectors, chalk- boards and microphone speaker facility.We have 87 lecture theatres out of which 68 are well equipped with Smart boards. This lends flexibility in teaching which enhances the teaching-learning process and leads to better performance by students in all internal and external examinations. Audio Visual aids are applied to accelerate the learning process. Research and Industrial Consultancy Centre (RICC) has been established in the college to promote industrial consultation and extend consultancy and Research as per industry needs.The students are regularly given assignments and projects to hone their aptitude for research. At the Institute level many Centers of Excellences have been established. The main focus of the institute towards setting up these centers is to encourage students to equip themselves with next generation technologies by help of different industries. The Cloud Computing cell provides a platform for learning AWS cloud services, develops and manages private cloud environments and helps students to boost their learning about latest technological trends. The cell is also promoting research work in the field of cloud computing. Access to a well-stocked library with internet facility, e-learning sources, journals, periodicals has enabled them to achieve extensive academic growth. The library is equipped with software and audio books for visually impaired students to enable them to pursue academics despite odds. All Such positive progression enables the institution to work harder year after year and carve a special place on the map of the city.

Provide the weblink of the institution
https://www.akgec.ac.in/iqac/

8.Future Plans of Actions for Next Academic Year

1. To monitor online classes an academic monitoring committee needs to be formed who will monitor the online classes, video lectures, notes and other study materials. 2. To utilize tech support for effective online classes modern teaching ICT tools such as (pan-tab), smart boards are to be incorporated in taking online classes. 3. For the preparation of good quality video lectures of theory and labs IQAC members suggested that good quality videos for theory and labs are to be prepared by every department for each course. Preparation of good quality video lectures of theory and labs will be continued as previous semester. More faculty members are motivated to participate in the preparation of video at AKGEC skill studio or AKTU digital studio. 4. To develop e-content for the improvement of online teaching learning, departments should deliver good quality e-content (PPTs, PDFs of courses, Videos) under the supervision of senior faculty members of monitoring committee. 5. To plan summer internship for B. Tech I, II and III year students departments are advised to plan in house summer internship program for B. Tech I, II and III year students. 6. The IQAC has decided to revise the benchmarks of those parameters to meet the current scenario of Higher Education and strategic 5 year planning of the Institute. Review on further improvement of faculty pursuing PhD, new PhD registrations and quality publications.