

SELF ASSESSMENT REPORT

SUBMITTED TO

NATIONAL BOARD OF ACCREDITATION, NEW DELHI

BY



NAME OF PROGRAMME

DIPLOMA IN CIVIL ENGINEERING

**SCHOOL OF MANAGEMENT AND SCIENCES,
P.O KASIMPUR BIRUHA, GOSAIGANJ, LUCKNOW (U.P)**

Approved by All India Council for Technical Education
Affiliated to Board of Technical Education, Uttar Pradesh

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Part A: Institutional Information

1. Name and Address of Institution:

School of Management and Sciences,
PO KasimpurBiruha, Gosaiganj,Lucknow.(U.P)

2. Name and Address of the Directorate of Technical Education:

Board of Technical Education, Uttar Pradesh

3. Year of Establishment: 2008.

4. Type of Institution: Affiliated

5. Ownership Status: Society

6. Other Academic Institutions of the Trust/Society/etc. if any:

Name of the Institution	Year of Establishment	Programs of Study	Location
School of Management and Sciences, Varanasi	1995	Management	Varanasi, UP

7. Details of all the programs being offered by the institution under consideration:

S.No.	Name of Dept.	Name of Program	Year of Commencement	Intake Capacity	Increase in intake, if any	Year of increase	AICTE Approval	Accreditation Status
1	Diploma	Diploma in Mechanical Engineering	2013	60	120	2014	Yes	Applying first time
2	Diploma	Diploma in Civil Engineering	2013	60	--	----	Yes	Applying first time

8. Programs to be considered for Accreditation vide this application:

S.No.	Program Name
1	Diploma in Civil Engineering
2	Diploma in Mechanical Engineering

9. Total number of Employees:**A. Regular Faculty and Staff:**

Items		CAYm1 (2018-19)		CAYm2 (2017-18)		CAYm3 (2016-17)	
		Min	Max	Min	Max	Min	Max
Faculty in Engineering and Technology	M	6	6	7	7	7	7
	F	2	2	2	2	1	1
Faculty in Sciences and Humanities	M	3	3	3	3	3	3
	F	1	1	1	1	1	1
Non-teaching Staff	M	2	2	2	2	2	2
	F	0	0	0	0	0	0

11(a). Total number of students: (CE)

Items	CAYm1 (2018-19)	CAYm2 (2017-18)	CAYm3 (2016-17)
Total no. of boys	135	126	108
Total no. of girls	002	000	002
Total no. of students	133	126	106

12. Contact Information of the Head of the Institution and NBA Coordinator:

i. Head of the Institution:

Name: Dr. Manoj Mehrotra

Designation: Director

Mobile No.: 9919777701

Email id: director@smslucknow.com

ii. NBA Coordinator:

Name: Dr. Prashant Kumar Gangwar

Designation: HOD- Civil

Mobile No.: +91-87651165479

Email id: prashant@smslucknow.com

ACADEMIC YEAR : 2016-2017

S.No.	Faculty Name	Qualification and Department
1	Ms. Sujata Sinha	MA (English)
2	Mr. Sachin Mishra	M.Sc. (Maths)
3	Mr. Vinay Yadav	M.Sc. (Physics)
4	Dr. Shri Prakash Mishra	Msc, Phd(Chem)
5	Ms. Smita Singh	M.Tech
6	Mr. Anurag Singh	M.Tech
7	Mr. Sameer Srivastava	B.Tech
8	Ms. Rashmi Kumar	B.Tech
9	Mr. Prashant Singh	B.Tech
10	Mr. Anoop Singh Chandel	B.Tech
11	Mr. Krambeer Singh	B.Tech
12	Mr. Prem Bhushan Singh	B.Tech

ACADEMIC YEAR : 2017-2018

S.No.	Faculty Name	Qualification and Department
1	Mr. Ravi Mishra	M.Tech
2	Ms. Naazaan Shaheen	B.Tech
3	Mr. Ashutosh Srivastava	M.Tech
4	Mrs. Sujata Sinha	M.A.(ENG)
5	Mr. Sachin Mishra	Msc (Maths)
6	Mr. Vinay Yadav	Msc(Phy)
7	Dr. Shri Prakash Mishra	Msc , Phd(Chem)
8	Mr. Urooj Shameem	M.Tech
9	Ms. Smita Singh	M.Tech
10	Mr. Anurag Singh	M.Tech
11	Mr. Sameer Srivastava	B.Tech
12	Ms. Rashmi Kumar	B.Tech
13	Mr. Prem Bhushan Singh	B.Tech

ACADEMIC YEAR : 2018-2019

S.No.	Faculty Name	Qualification and Department
1	Mr. Ravi Mishra	M.Tech
2	Dr. Prashyant Kr. Gangwar	M.tech , Phd (Engg)
3	Ms. Naazaan Shaheen	B.Tech
4	Mr. Ashutosh Srivastava	M.Tech
5	Mrs. Sujata Sinha	M.A.(ENG)
6	Mr. Sachin Mishra	Msc (Maths)
7	Mr. Vinay Yadav	Msc(Phy)
8	Dr. Shri Prakash Mishra	Msc , Phd(Chem)
9	Mr. Urooj Shameem	M.Tech
10	Ms. Smita Singh	M.Tech
11	Mr. Sameer Srivastava	B.Tech
12	Mr. Prem Bhushan Singh	B.Tech

PART-B

Criterion 1	Vision, Mission and Program Educational Objectives
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1.1. Vision and Mission of the department**Vision:**

Develop globally competent Civil Engineering professionals in an environment conducive to learn technical knowledge, skills, moral values and ethics, to serve the society and make the world a better place to live in.

Mission:

- M1** To provide an academic environment, through competitive curriculum in collaboration with industry, conducive for high quality education focusing on transfer of knowledge and skill development for the benefit of the profession and the society.
- M2** To nurture talent in students to enable them to be leaders in their chosen professions while maintaining the highest level of ethics.
- M3** To promote the spirit of enquiry, innovation, life skills and to encourage entrepreneurship.
- M4** To foster effective interactions and networking with all the stakeholders so as to work towards the growth and sustainability of the society and environment.

1.2. Program Educational Objectives (PEOs) :

Civil Engineering Programme is committed to continually improve the educational environment in order to develop professional with strong technical background. On completing the diploma programme, the students should have acquired the following characteristics.

- 1) To apply technical knowledge and management principles in analyzing and planning problems in the field of Civil Engineering, while ensuring maximization of economic benefits to society and minimization of damage to ecology and environment.
- 2) To be life-long learners with spirit of enquiry and zeal to acquire new knowledge and skills so as to remain contemporary and possess required professional skills.
- 3) To enhance entrepreneurial, communication and other soft skills, which will enable them to work globally as leaders, team members and contribute to nation building for the betterment of the society.

- 4) To make them strongly committed to the highest levels of professional ethics and focus on ensuring quality, adherence to public policy and law, safety, reliability and environmental sustainability in all their professional activities

1.3. Program Outcomes (POs) :

Students completing Diploma in Civil Engineering are anticipated to have the ability to:

- 1) Use the knowledge of mathematics and sciences to be applied in the field of Civil Engineering.
- 2) Identify and critically analyze problems related to Civil Engineering by using appropriate analytical tools and through literature review.
- 3) Investigate the identified problem, plan and perform experiment, case studies and practices and use the result , data from the literature, databases & relevant codes to solve indentified engineering problems & provide valid conclusions
- 4) Select and apply appropriate techniques , resources and modern tools in civil engineering activities & also understand the limitation
- 5) Understand the need for sustainable development in the field civil engineering
- 6) Understand norms of engineering and be committed to ethical and professional responsibilities of a Civil engineer
- 7) Communicate effectively by giving and receiving clear instructions, through effective presentations with the civil engineering community and the society at large and be able to design documents and write effective reports
- 8) Engage in life-long learning particularly in innovative and specialized technologies.

1.3. Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders:

The Vision, mission and PEO's are published and disseminated at following location:

Sl.No.	Location	Dissemination
1	College Website	www.smslucknow.com
2	Department Entrance and HOD room	Posters

3	Departmental Labs	Posters
4	Departmental Staff-room	Posters

- These Vision and Mission statement also made known to the external stakeholders via the pamphlets, memorandum and dialogues.
- Disseminated during college student association inauguration and valedictory function.
- Disseminated during Induction programme for newly admitted students.
- Disseminated during Students-Parent-Teacher meetings.
- Disseminated during counseling aspiring students and parents during admission process.
- Every year in the beginning of their semester HOD address to the students.

1.4. State the process for defining the Vision and Mission of the Department, and PEOs of the program:

Department of Civil Engineering has formed the Advisory Committee headed by Head of the Department and the following stakeholders.

Senior faculty members: Formulation and consolidation of the views and ideas expressed by the experts and other stakeholders along with their own expressions.

Industrial persons/Experts: To bridge the gap between industry and academics based on the board curriculum.

Alumni: Ideas given by alumni to bridge the gap between academics and needs

Students: Demands on the basis of participation in various national and state level technical programs and other Competitive exams conducted by the state government, central government and other private agencies etc.

Parents: Expectations of the wards about employment, quality of education and personality development.

Government Technical Agency (PWD): Ideas and views based on guidelines, policies, rules, regulations adopted in governmental procedure.

The following process is conducted for defining the Vision and Mission of the Department, and

PEOs of the program:

- The process of defining Vision and Mission of the department and PEOs involve a brain storming session firstly in the department meetings of the faculty based on feedbacks taken by the various stake holders' thorough interactions / questionnaire / interviews / meetings.
- The department arrives at specific conclusions after a SWOT analysis based on these interactions and specifies the Programme Educational Objectives and revised several times with various sittings.
- The members review these PEOs by considering Mission and Vision of the Department, Data collected from the stakeholders, Details of the current status (Student admission quality, Teaching & Learning Process, Faculty and their research activities, other facilities) of Department, Data Collected on prospect/ potentialities of identified Industries relevant to the academic programme and Action taken on reports and Minutes of the Meeting.
- Assessment methods are developed for each PEO to measure the attainment. Checks are taken for the consistency of the PEOs with the mission statements of the Department.
- The PEOs are Published and Disseminated among the stakeholders to help the stakeholders to know about the career accomplishments of the programme outcomes (PO's).

1.5. MAPPING of PEOs with Mission of the Department:

PEO	M1	M2	M3	M4
To apply technical knowledge and management principles in analyzing and planning problems in the field of Civil Engineering, while ensuring maximization of economic benefits to society and minimization of damage to ecology and environment.	√		√	√
To be life-long learners with spirit of enquiry and zeal to acquire new knowledge and skills so as to remain contemporary and possess required professional skills.	√	√	√	

To enhance entrepreneurial, communication and other soft skills, which will enable them to work globally as leaders, team members and contribute to nation building for the betterment of the society.	√	√	√	√
To make them ethics and focus on ensuring quality, adherence to public policy and law, strongly committed to the highest levels of professional safety, reliability and environmental sustainability in all their professional activities.	√	√		√

MAPPING OF PEOS WITH POS

Programme	Programme Outcomes									
Educational Objectives	1	2	3	4	5	6	7	8	9	10
1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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3			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>



Linked

1.5.1 Justify the academic factors involved in achievement of the PEO's

Following are the factors that are involved in achieving the PEO's.

- Syllabus and Curriculum
- Lecture Plan
- Lecture Schedule
- Course File
- Assessment
- Feedback

Syllabus and Curriculum

The various courses for each program were chosen in accordance with the PSOs of the program. Both regular and elective course were mapped along with the attainment of PSO and were distributed among various semesters of the course. The syllabus of the course is designed in line with the principles of outcome based education and achievement of PSOs.

Lecture Plan

The syllabus and curriculum will be effective only if a well planned lecture process is followed. In order to achieve this, the lecture plans are prepared by faculties well before commencement of the classes that include both theory and lab courses. This lecture plan is duly signed by the head of department and director and discussed in the meeting before commencement of the classes.

Lecture Schedule

The course content of each lecture delivered by each faculty is scheduled according to the topics. Details of content to be covered in a lecture on a particular date is prepared well before commencement of the classes and duly checked and signed by the director.

Course File

A course file of each theory course is maintained in order to keep track of all the activities carried out in the lecture room during delivery of the lecture. This include time table, lecture plan, lecture schedule, record of content delivered, previous year question papers, assignments, class tests, performance analysis and remedial action. Performance analysis and remedial action provide the faculty to monitor the performance of students. This course file is duly monitored by head of department and maintained in department library and serves as a reference to faculty handling the subject.

Assessment

The performance of the students is evaluated by assessment carried through three mid semester assessments followed by an end semester examination for every course. The assessment marks are displayed to the students after every test and also properly maintained. The internal assessments are uploaded on BTE, UP website by each course teacher.

Feedback

The NBA QC is an integral part of the system that assures the achievement of PEOs. This team monitors the quality of entire process of each course.

1.5.2. Explain how administrative system helps in ensuring the attainment of PEOs

The following administrative setup is kept so as to enable attainment of PEOs

- Program Coordinator
- NBA QAC
- Department Assessment Committee Program

Program Coordinator

1. Interaction with stake holders, faculty, students and employer.
2. Monitoring the academics of the each year of the program with the course coordinator.
3. Schedules the work plan according to program objectives and outcomes.
4. Reviews the operation and coordination of activities for optimum running of the system.

5. Conducts and interpret various surveys required to assess the PEOs and Pos.

Program Co-Coordinator

1. Coordinate and monitors faculty teaching in particular course.
2. Assess the course objectives and outcomes.
3. Facilitates guest lectures, workshops, seminars, FDP in order to meet course outcomes.
4. Result analysis of particular course and initiates request to program coordinator for necessary action.

National Board of Accreditation Quality Assurance Cell (NBA QAC)

1. Plans development and delivery of PEOs and POs.
2. Prepare assessment plan to assess PEOs and POs attainment.
3. Guides and monitor every department committee.
4. Assess the availability of resources in order to achieve PEOs and POs of each course.
5. Analyze the assessment, initiate corrective actions for revising PEOs and POs.

Department Assessment Committee

1. Monitors the attainment of the PEOs and POs.
2. Evaluation of program effectiveness and proposing necessary changes.
3. Preparing periodic reports on program activities, status and progress.
4. Motivating faculty towards publications, workshops, projects and FDP.
5. Interacts with students, faculty, program coordinator, course coordinator to facilitate PEOs.

Department Assessment Committee List

S.No.	Name	Position Held	Responsibilities
1	Dr. Manoj Mehrotra	NBA Coordinator	NBA In-charge
2	Dr.Prashant Kumar Gangwar	HOD –Civil	Department In-charge
3	Mr. S.A.H.Rizvi Md.Aquib	Program co-ordinator Program co-coordinator	Formulation of attainment
4	Mr. UrojShammem (CE)	Continuous Improvement	Attainment of PO and PSO

Various Committee in charge of Department

	Committee	In charge
1	Time Table	Mr. UrojShameem
2	Mentor	Dr.Prashant Kumar Gangwar
3	Internal Test Cell	Mr. Ravi Mishra
4	Website Over All	Mr. Praveen Singh
5	Departmental Website	Md.Aquib
6	Symposium/Workshop/Conference	Dr.Prashant Kumar Gangwar
7	Professional Bodies	Mr. SurendraSrivastav
8	Slow Learner/Rank Holder	Mr. UrojShameem
9	First Year Coordinator	Mr. PankajYadav
10	Second Year	Mr. Ravi Mishra
11	Overall Lab Coordinator/ Project	Mr. ShubhamKesarwani
12	Third Year Coordinator	Mr.Akhilesh Kumar
13	Placement	Md.Aquib
14	Industrial Visit	Mr. Rahul Singh
15	Newsletter	Mr. Rahul Singh
16	Cultural	Mr. Ravi Mishra
17	Sports	Mr. Ravi Mishra
18	Alumni	Mr. UrojShameem
19	Student Seminar/ Mini Projects	Mr.Akhilesh Kumar

CRITERION 2	Program Curriculum And Teaching-Learning Processes
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2.1 Program Curriculum

2.1.1 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes (POs) and Program Specific Outcomes (PSOs) as mentioned in Annexure I. Also mention the identified curriculum gaps, if any.

A. Process used to identify extent of compliance of the BTE Curriculum for attaining the Program Outcomes and Program Specific Outcomes.

The Schools of Management and Sciences Technical Campus, Lucknow is affiliated to Board of Technical Education, Uttar Pradesh. Hence our program curriculum is as per the scheme and syllabus of the BTE, UP. Basically the Curriculum maintains balance in content of general science, humanities and other professional courses in order to attain the CO's/PO's.

Gap analysis is performed in order to cover the "Contents beyond Syllabus".

Process of Gap Analysis

1. The concerned subject faculty undergoes a thorough study of the curriculum and syllabus and after conducting meeting with other subject faculties, a common criteria is generated where the relation between various subjects is discussed. Discussion of curriculum gaps and their solution is done.
2. The present scenario of the industries and advances are recognized. In accordance, workshops, industrial visits, seminars, guest lectures, training sessions are planned.
3. After the analysis, necessary contents are added accordingly.

LIST OF PROGRAM OUTCOMES

PO1	Engineering Knowledge: Ability to apply knowledge of basic mathematics, science and engineering in order to solve Civil Engineering problems.
PO2	Discipline Knowledge: Ability to apply specific discipline knowledge so as to solve broadly defined Civil Engineering problems.
PO3	Experiments and Practice: Ability to conduct standard tests and experiments to analyze and interpret the results.
PO4	Engineering Tools: Ability to apply techniques, tools and skills of Civil Engineering to describe engineering technology activities.
PO5	The Engineer and Society: Express knowledge to analyze societal, safety, health, cultural and legal issues.
PO6	Environment and Sustainability: Demonstrate knowledge and need of sustainable development while understanding the influence of engineering solutions on

	environment.
PO7	Ethics: Apply ethical principles and commit to professional ethics as well as responsibilities and norms of engineering practice.
PO8	Individual and team work: Function effectively as an individual, and as a member or leader in diverse/multidisciplinary teams.
PO9	Communication: An ability to apply oral, written and graphical communication in both technical and non-technical environments and ability to use appropriate technical literature.
PO10	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the context of technological changes.

LIST OF PSO's

PSO1	The program must demonstrate the understanding of principles to Design, Fabricate, Test, operations and working of basic systems and processes.
PSO2	To develop technical competencies in students to deal with practical aspects of civil engineering and site adoptability.

The process used to identify extent of compliance of BTE,UP curriculum to attain POs and PSOs are

1. Categorize the Courses
2. Map each category with POs and PSOs
3. Identify COs for each subject
4. Map each CO with POs and PSOs
5. On the basis of all CO-POs and PSOs mapping, map the subject with POs and PSOs

B. List the “Curriculum Gap Analysis” for attainment of POs and PSOs

Process for “Curriculum GAP ANALYSIS”

Courses were analyzed for curriculum gaps using following steps:

1. Review from faculty handling the subject.
2. Review from the Employers.
3. Feedbacks from the Industrial Experts.
4. Feedbacks from the Placement Cell.
5. Feedback from the Management.
6. Feedback from the Alumni.

After the gap analysis, workshops, seminars, training sessions are planned for the students to fill the gap in the curriculum and attain the COs/POs. If the gap analysis is not satisfactory, reanalysis is performed.

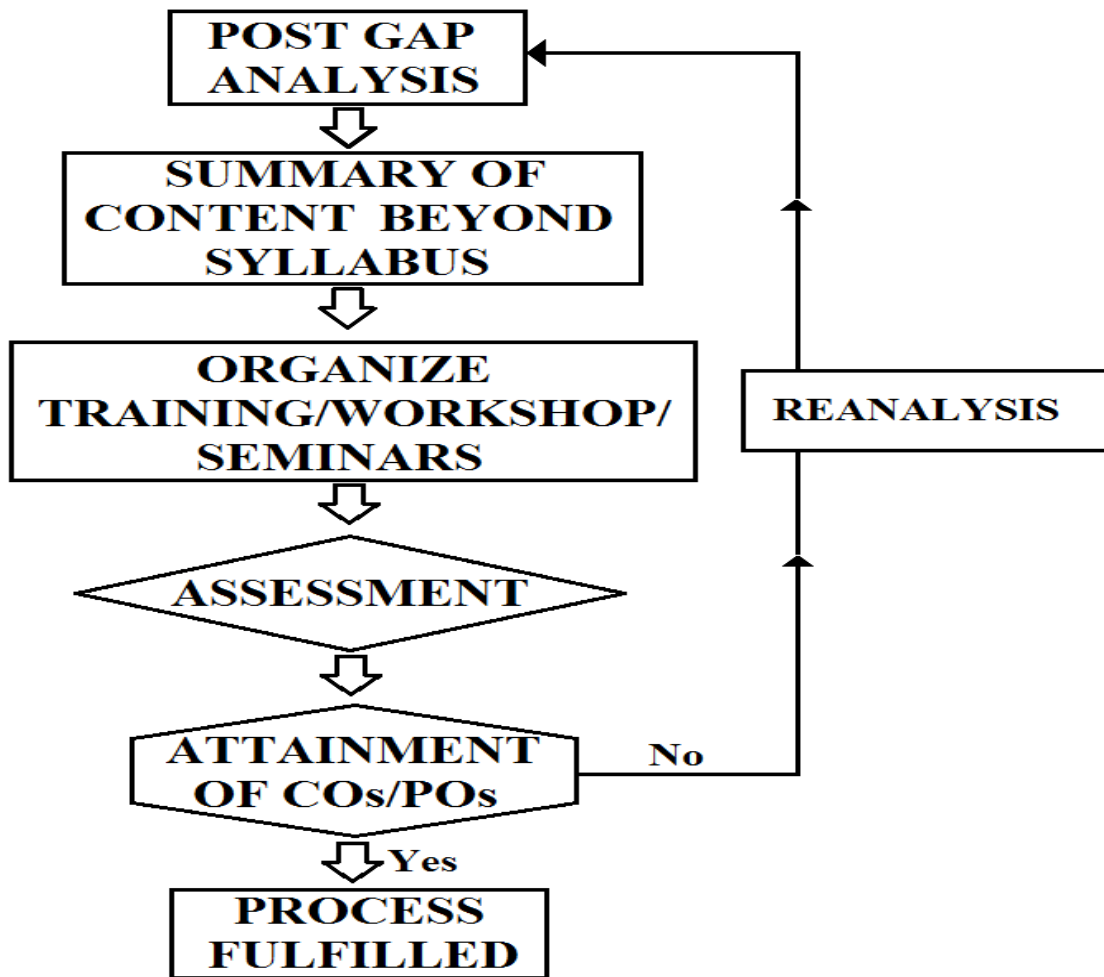


Figure 3. Process of assessment of Gap Analysis

Identified Curriculum Gaps

1. The Diploma civil Engineering curriculum has certain gaps like knowledge of CAD, etc which are not covered in the curriculum but are required by present industry. They are taught in the regular class by allocating workshops.
2. Personality development of the students is focused as it is a most vital virtue for a professional. PDP training and other essential skills such as stress management, interview techniques, importance of team work etc. are delivered to the students by inviting experts in respective fields.
3. Employment enhancement training is also provided to the students for better placement potential.

CAY (2018-19)

S.No.	Gap	Action Taken	Date-Month-Year	Resource Person	Mode	No. of students present	Relevance to POs & PSOs
1	Personality Development	Expert used to take lectures and train the students	Jun-19	Mr. DharmeshSrivastava and Ms. SujataSinha	Internal	All students of third year	PO9, PO10
2	AutoCAD	Expert used to take lectures and train the students	April 2019	Mr.Hariom	Internal	All students of third year	PO2, PO3, PO4, PO6, PO10, PSO1, PSO2
3	Employment Enhancement	Expert used to take lectures and train the students	Jun-19	Ms. SujataSinha and Mr. AshishPandey	Internal	All students of third year	PO8, PO9, PO10

CAYm1 (2017-18)

S.No.	Gap	Action Taken	Date-Month-Year	Resource Person	Mode	No. of students present	Relevance to POs & PSOs
1	CAD Classes	Expert used to take lectures and train the students	4/16/2018 - 5/11/2018	Ms.PriyaNishad	Internal	All students of third year	PO2, PO3, PO4, PO6, PO10, PSO1, PSO2
2	Personality Development	Expert used to take lectures and train the students	Jun-18	Mr. Dharmesh Srivastava and Ms. SujataSinha	Internal	All students of third year	PO9, PO10
3	Employment Enhancement	Expert used to take lectures and train the students	Jun-18	Ms. SujataSinha and Mr. Ashish Pandey	Internal	All students of third year	PO8, PO9, PO10

CAYm2 (2016-17)

S. No	Gap	Action Taken	Date-Month-Year	Resource Person	Mode	No. of students present	Relevance to POs & PSOs
1	Personality Development	Expert used to take lectures and train the students	Jun-17	Mr. Dharmesh Srivastava and Ms. Sujata Sinha	Internal	All students of third year	PO9, PO10
2	Employment Enhancement	Expert used to take lectures and train the students	June-2017	Ms. Sujata Sinha and Mr. Ashish Pandey	Internal	All students of third year	PO8, PO9, PO10

2.1.2.**B. Delivery details of content beyond syllabus**

- Training of CAD software
- Training of total station
- Training for placement and interviews
- Personality Development Program
- Projects
- Guest Lectures
- Workshops
- Seminars
- Industrial Visits
- Employment Enhancement Training

C. Mapping of content beyond Syllabus with the PO's & PSO's

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
PO's Topics												
Training of CAD software								√	√	√	√	√
Training of total station		√	√					√	√	√	√	√
Training for placement and interview							√	√	√		√	
Personality Development Program							√	√	√	√		
Projects	√	√	√	√	√	√					√	√
Guest Lectures	√	√		√	√	√		√			√	
Workshops	√	√	√	√						√	√	√
Seminars	√	√	√	√							√	
Industrial Visits	√	√				√					√	√
Employment Enhancement Training				√		√	√	√	√	√		

2.2 Teaching Learning Process

2.2.1 Describe processes followed to improve quality of teaching and learning

A. Adherence to Academic calendar:

From the BTE, UP calendar of events an institutional calendar of events is derived which is followed by all departments. Diploma civil Engineering department adhere to the academic calendar.

Department calendar of events like seminars, workshops, guest lectures, etc which is specific to the department was prepared well before the commencement of the classes.

The academic calendar of the institute and department is notified to the students at the beginning of the academic session.

B. Use of various instructional planning and delivery methods:

The subjects are allotted to the faculty well before commencement of classes to prepare lecture plan, lecture schedule, lab plan and notes.

The whole syllabus is divided accordingly in the lecture plan and lecture schedule such that it can get completed on time.

The attendance of the students is maintained in the individual attendance register. The attendance register also contains the lecture plan and lecture schedule of the particular subject duly signed by HOD and Director.

The faculty use chalk and board and audio visual aids for teaching. Students are also encouraged to actually interact during the lecture hour by getting the doubts clarified on the spot. faculty using models , charts for interactive teaching

Lecture plan and lecture schedule with course objectives and course outcomes are prepared by the subject handling faculty before the commencement of the semester and is dually approved by the Head of the Department and made available to the students. According to the lecture plan and lecture schedule, work done has been inculcated in the academic file to ensure coverage of syllabus dually monitored by Head of the department.

The entire faculty maintains a course file for concerned subject. The course file contains following items:

1. Syllabus
2. Lecture Plan
3. Lecture Schedule
4. Class Test Papers
5. Students Sessional exam marks
6. Previous Year Question papers
7. Assignments

Question banks are prepared for each subject considering the nature of previous year BTE, UP question papers.

Real time projects are given to final year students and they are guided by the department faculties.

Assignments are given to the students for better performance.

Tutorials and remedial classes are conducted for week students as per the analysis based on their performance in the internal sessional exams.

Guest lectures and seminars on the current industrial trends are performed regularly from the industry persons.

Motivate and guide the students for higher studies.

Technical quiz and activities are conducted for the students and they are also motivated to participate in extra-curricular activities of other colleges.

Industrial visits are conducted twice in a semester to reduce the gap between industry and institute.

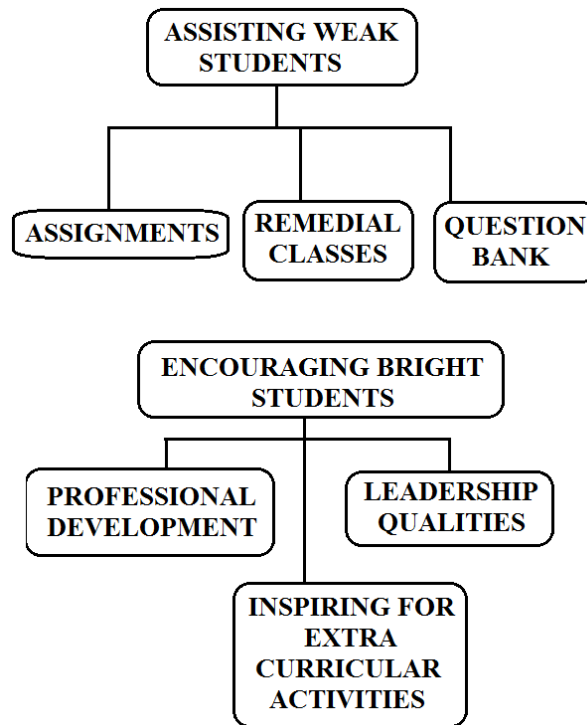
Workshops are organized to help the students to understand concepts beyond curriculum.

C. Methodologies to support weak students and encourage bright students:

The Class Coordinators acts as mentor and regularly conduct meetings regarding progress of their mentees and are in-charge to recognize students who have scored less than 60% marks in their internals sessional exams. Under the direction of HOD, the Class Coordinator evaluates the progress sheet of those students who have scored below 60% marks in three or more subject and have attendance below 75% are recognized as weak students and same is also intimated to their parents through meeting or through phone call.

Bright students are motivated to take part in technical quizzes, projects competitions, etc at college and inter-college level.

Weaker students of the class are identified on the basis like communication gap, lack of interest, language barriers etc. and the class coordinator supports their students by arranging extra remedial lectures, providing question banks, assignments, etc.



D. Quality of classroom teaching:

The following innovative teaching methods are adopted by the faculty:

- Department follows curriculum prescribed by BTE, UP for teaching and learning process.
- Faculty members take advantage of sources like National Programme on Technology Enhanced Learning (NPTEL), internet sources for effective teaching.
- Department Library contains various books for reference such that effective and quality lecture can be delivered.
- Well structured lesson plans and schedules are prepared for all theory and practical subjects that are scrutinized by both HOD and Director and made available in the website for student's access.

- Computer, projector, and multimedia and internet facility are used for teaching purposes and internet facility is available for students and faculty.
- Proper notes are provided to the students by concerned subject faculty.

E. Conduct of Experiments:

Laboratory provides the students with practical skills. In addition to that the students are trained as to how to perform the practical, collect the reading, analyze the data as per the scientific principles and interpret the drawings and conclusions. The theoretical scientific principles are tested through conduction of the experiments. Most of the PO's are attained by the conduction of experiments.

The department of Civil Engineering is equipped with necessary and sufficient Labs and equipments to carry out the experiments of BTE,UP curriculum.

The BTE, UP laboratory manuals are used to conduct the practical which describes in detail about the expected course objectives and the intellectual, motor skills to be developed through each of the experiment.

For some of the courses where BTE,UP has not provided any manual, the course faculty prepares the manual wherever it is felt necessary on the same guidelines as that of BTE,UP.

Faculty may conduct 1 or 2 experiments more than the specified list, but within the scope of the course.

All the experiments and readings are checked and verified by faculty and record books are maintained accordingly.

The marks are awarded systematically according to the students performance.

F. Continuous Assessment in laboratory:

- Continuous assessment system is implemented for assessing the laboratory work. The assessment is done through submission of laboratory manuals, understanding of the experiment through oral viva voce questions and participation in performing the experiment.
- Neatness of the lab record book is also given weightage during assessment.
- Each practical is assessed for maximum of 10 marks.
- Term Work and presentation for each practical made by candidates shall be assessed on following parameters.
- Continuous assessment is done based on the norms prescribed by BTE,UP.
- Students are encouraged to do the self-assessment of the skills acquired after each practical.
- Justification of marks awarded to the student for specific experiments are discussed at the request of students when called for.

G. Student feedback of teaching learning process and actions taken:

- At the end of the semester, all the students are required to fill a feedback-form apprising the faculty using a scale of 5 (high) through 1 (low).
- The Internal Monitoring Committee takes the feedback from students and submits the feedback analysis to

the Principal. The Principal give constructive comments to improve the quality of teaching and the teaching- learning process.

- Lecture classes are monitored by senior Lecturers and the HOD of the Department. They give constructive comments to improve the quality of teaching and the teaching- learning process.
- Counseling by the respective HOD for those faculty members who have secured low scores and negative comments, if any, in the feedback. This motivates them to improve their skills and abilities.
- If required training / orientation programs and FDPs are conducted by professional experts to master the skills of the faculty members and thus improving the efficiency of teaching-learning process.

2.2.2 Initiative to improve the quality of semester test and assignments

A. Process for Internal Semester Question Paper setting and evaluation and effective process implementation:

In a semester, the department conducts three tests. Each of the test consists of descriptive questions as well as quizzes. The average of the best two tests is considered for final internal assessment.

Each of the tests consists of descriptive questions as well as problems. The question papers for test are set based on COs. Blooms Taxonomy is followed while setting the internal exam question papers.

While designing the question paper, care is taken to include such questions that will assess the learning of expected course outcomes. The question paper pattern as recommended by BTE,UP is strictly followed.

Marks obtained by candidate in each test are displayed within 10 days on notice Board. Answer books of class tests are shown to students for feedback so as to make Improvement. The Answer books of Class Tests are preserved till the declaration of two consecutive examinations.

B. Process to ensure questions from outcomes/learning level perspectives

Each question is mapped with CO's PO's & Blooms taxonomy (BT) levels.

Student who answered to particular question is taken into consideration and average of all student marks is taken for CO -PO attainment

C. Evidence of COs Coverage in class test/Mid-term test

Individual student's answer book is evaluated and question answered by student is mapped with CO's and PO's on a scale of 0 to 3(0-no relation, 1-slightly related, 2-moderately related and 3-closely related) and efforts are taken to see that the average for every CO is more than 2.

In addition to mandatory assignments given by BTE, UP additional assignments are given by faculty whenever felt necessary. Mapping of assignment questions to the course outcomes are also prepared by the subject faculty to justify its need.

2.2.3 Quality of Experiments

A. Experimental Methodologies

- The curriculum and syllabus of BTE, UP has specified the list of experiments to be performed after due consideration of the quality of the experiments. Few experiments are added by the subject faculty so as to further enhance the quality of the experimental skills.
- The Civil Department laboratories are equipped with the necessary instruments and machines to facilitate for the smooth conduction of experiments.
- The department has procured the necessary equipment's, machines, instruments and apparatus as prescribed by BTE, UP.
- The experiments are carried out by concerned faculty with the help of lab technician and lab instructor.
- The practical batch size limited to 25 to 30 students such that each student is able to perform the experiments independently.
- All the students shall be assessed continuously for his/her sincerity, punctuality, and discipline along with the understanding of facts, principles, theories and application.
- Record of continuous assessment of candidates should be maintained by lecturer in charge and kept in the custody of Head of the Department after completion of the term.
- Marks obtained by candidate after assessment of each practical work and skill test shall be shown to candidate for improvement in subsequent practical.
- The repair & maintenance related requirement of laboratory is also communicated to Principal, periodically.

B. Innovative experiments including industry attached practices, virtual labs

- CAD laboratory is well equipped with Software for learning and practice.
- Laboratory is well equipped with Software for learning and practice.

C. Relevance to outcomes

- The contents of the laboratory manual are mapped for the course outcomes on a scale of 0 to 3.
- Laboratory planning and proper conduct of practical ensures better understanding of course outcomes.
- Sufficient equipment and instrument develops interest in the course and program.
- The habit of performing experiment enables proficiency in practical performance.
- Well defined and transparent progressive assessment of practical helps the student in improving their performance.

- The skill test over experiment and external examiner viva voce helps students to build the communication skill and improved competency.

2.2.4 Quality of Students Projects and Report Writing

A. Identification of projects and allocation methodology

- The student's projects are selected in line with department mission, vision and Program outcomes.
- The project team varies from three to four students.
- Students are provided with brief idea of various fields for selecting the project ideas.
- The faculties encourage the students to carry out projects and support is provided with all necessary software and hardware.
- The Hardware Projects are identified based on need of society, technology and with respect to end user of the project.
- The list of previous year projects is displayed at notice board which ensures no repetition of project work and also encourages students to enhance the previous works.
- The faculties encourage students to participate in project exhibitions. The project exhibition was aimed to provide common platform to exhibit their innovations and their work towards excellence in latest technology.

B. Type and relevance of the projects and their contribution towards attainment of POs and PSOs

- Current academic projects are mapped to POs and PSOs.
- Each project is evaluated with internal marks and is graded according to their project quality and with their contribution towards attainment of PO's.
- Project should be selected such that they tend to contribute towards attainment of Program objectives (POs) and Program specific objectives (PSOs)
- As per the selection criterion designed at the departmental level the projects are selected by the students based on available resources and the outcomes expected. Industry supported project, application based project, study based projects are the broad categories of Project.

C. Process of monitoring and evaluation

- Process of monitoring and evaluation is solely based on BTE, UP curriculum and guidelines.
- The project is divided into various stages or chapters and scheduling is done as per the project planning sheet.
- All the students of a project group should meet their respective guide weekly once, and asked to submit their progress they have done in their project for that particular week.
- After every stage project progress report is submitted and get it approved by their respective guides

- The project guides will evaluate the report submitted by the students and help them carry on with project work.
- Evaluation is done and transparency and fair practice of assessment is ensured.

D. Process to assess individual and team performance

- Project progress seminars are conducted every month by the team of their respective guide and other senior faculty of the department.
- The project seminar should be given by all the project team members according to the division of project.
- Each student in the project team is assessed based on their presentation and their contribution in that particular section.
- Each individual and team performance is purely based on their project seminar presentation and the viva-voce and progress work they show to their guide.

E. Quality of completed projects/working prototypes

- The faculties encourage students to participate in project exhibitions.
- The project exhibition is aimed to provide common platform to exhibit their innovations and their work towards excellence in latest technology.
- Projects are categorized as theoretical, simulated, industry sponsored projects.
- Quality analysis is carried out for the completed projects based on innovation, product development, research orientation, presentation, socially relevant, problem-solving approach, etc.
- Working prototypes are encouraged as it includes majority of the components of desired outcomes of project.

F. Papers published /Awards received by projects etc.

- The faculties encourage students to present their project work in inter-college competitions and events.
- They are also made aware about poster presentation, etc.

2.2.5. Industry Interaction and Community Services

Initiatives related to industry interaction

MOU's with Industries:

MOU's was done with industries to emphasize on

- Internship
- Project Workshop for Students
- Industrial Visits

Snow fountain consultant have been supporting by training by bringing their different tools for the purpose of demonstration and training.

B. Delivery of appropriate Course work by Industry experts

Following industries are involved in supporting the delivery of course work by deputing an expert from their company in terms of either workshop or expert lecture.

- Snow fountain consultant
- CADD Center

C. Industrial visits/tours for students

Following visits are arranged in order to meet the course outcomes of different courses.

Session 2016-17

S. No.	Day & Date	Time	Industry	Venue	Relevance to Pos & PSOs
1	06/09/2016	10 AM to 4 PM	construction	Snow fountain	yes

Session 2017-18

S. No.	Day & Date	Time	Industry	Venue	Relevance to Pos & PSOs
1	10/10/2017	10 AM to 4 PM	construction	Snow fountain	yes
2	09/04/2018	10 AM to 4 PM	Designing	CADD	yes

Session 2018-19

S. No.	Day & Date	Time	Industry	Venue	Relevance to Pos & PSOs
1	26/09/2018	10 AM to 4 PM	construction	Snow fountain	yes
2	20/03/2019	10 AM to 4 PM	designing	CADD	yes

D. Industrial training

- The students are fortified to take implant training program during their semester break. Faculty members give their guidelines, suggestions and scope and contact details of an industry. They also help the students by interacting with the industrial experts, provide the students recommendation letters and other necessary supports.
- Industrial in-plant training is an essential tool to achieve the course and program outcomes.
- In plant training during summer vacation 2016-17, 2017-18 and 2018-19 respectively for 4 weeks details are shown below.

E. Post training Assessment

Post training assessment is done in the following manner.

- Students are directed to submit the in plant training report to the concerned course faculty.
- The students are asked to present the knowledge obtained through the training in the form of power point presentation.

- The concerned course faculty then award marks on the basis of attendance, skill acquired, and knowledge gained presentation style as per the scheme of BTE, UP curriculum.

2.2.6. Information Access Facilities and Student Centric Learning Initiatives

1. We have subscription of 20 journals in 2016-17, 14 journals in 2017-18 and 14 journals in 2018-19.
2. We have subscription of 12 magazines every year.
3. Facilities of NPTEL lectures.

2.2.7. New Initiatives for embedding Professional Skills

A. Employability skill enhancement initiatives and effective implementation

1. Conduction of workshop on AutoCAD.
2. Conducting value addition workshops from different institutions and industrial experts.
3. Conducting guest lecture from experts to make the students aware of newer technologies.
4. Visit to various industries for industrial exposure.
5. Conducting mock interview for final year students.

B. Personality development related Initiatives and effective implementation

1. This process includes boosting one's confidence, improving communication and language speaking abilities, widening ones scope of knowledge, developing certain hobbies or skills, learningmanners.
2. Developing professional practice
3. Entrepreneurship development of final year students.
4. Conducting guest lectures on relevant topics.

2.2.8 Co-curricular and Extra-curricular Activities

1. Republic day celebrated every year on 26th January.
2. Celebration of World Earth Day on 22nd April every year for grievances of sustainability and existence of ours in the future.
3. World Environment Day celebrated on 5th June every year for conservation of environment.
4. International Yoga Day celebrated on 21st June every year.
5. Induction program conducted every year for newly admitted first year students.
6. Dr. Kalam Startup Parikrama is a one day workshop organized by SMS, Lucknow for entrepreneurship development.
7. Industrial Visits are planned every year.

Criterion 3	COURSE OUTCOMES AND PROGRAM OUTCOMES
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3.1. Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs)

LIST OF PROGRAM OUTCOMES

PO1	Basic Knowledge: Ability to apply knowledge of basic mathematics, science and engineering in order to solve Civil Engineering problems.
PO2	Discipline Knowledge: Ability to apply specific discipline knowledge so as to solve broadly defined Civil Engineering problems.
PO3	Experiments and Practice: Ability to conduct standard tests and experiments to analyze and interpret the results.
PO4	Engineering Tools: Ability to apply techniques, tools and skills of Civil Engineering to describe engineering technology activities.
PO5	The Engineer and Society: Express knowledge to analyze societal, safety, health, cultural and legal issues.
PO6	Environment and Sustainability: Demonstrate knowledge and need of sustainable development while understanding the influence of engineering solutions on environment.
PO7	Ethics: Apply ethical principles and commit to professional ethics as well as responsibilities and norms of engineering practice.
PO8	Individual and team work: Function effectively as an individual, and as a member or leader in diverse/multidisciplinary teams.
PO9	Communication: An ability to apply oral, written and graphical communication in both technical and non-technical environments and ability to use appropriate technical literature.
PO10	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the context of technological changes.

LIST OF PSO's

PSO1	The program must demonstrate the understanding of principles to Design, Fabricate, Test, operations and working of basic systems and processes.
PSO2	To develop technical competencies in students to deal with practical aspects of civil engineering and site adoptability.

Correlation between POs and PSOs

POs	PSO1	PSO2
PO1	3	
PO2	2	
PO3	2	
PO4	2	2
PO5		2
PO6		1
PO7		
PO8		2
PO9		2
PO10		2

3.1.1. Course Outcomes (SAR should include course outcomes of one course for each semester of study, however, should be prepared for all courses)

Applied Maths – I (1st Semester) (Course Code – C102)

CO	Course Outcome (The Student would be able to)
CO1	Apply binomial theorem and determinants to solve engineering problems.
CO2	Apply dot & cross product of vectors to find the solution of engineering problems.
CO3	Apply complex numbers to find the solution of engineering problems s.
CO4	Apply differential calculus and higher order to solve engineering problems.
CO5	Find velocity, acceleration, errors and approximation in engineering problems with application of derivatives.

Applied Mechanics (2nd Semester) (Course Code – C203)

CO	Course Outcome (The Student would be able to)
CO1	Define engineering concepts, system of forces and working of machines.
CO2	Deduce the concepts of different force systems on different bodies.
CO3	Establish the corelation between various engineering properties and terminologies.
CO4	Calculate the co-efficient of friction for different types of surfaces.
CO5	Analyze different types of forces acting on a body and draw free body diagrams.

Structural Mechanics (3rd Semester) (Course Code – C303)

CO	Course Outcome (The Student would be able to)
CO1	Interpret various concepts and terms related to strength of materials and calculate stresses in bars of various cross-section.
CO2	Calculate energy stored by materials subjected to axial loads.
CO3	Calculate moment of inertia of different sections. Interpret the concept of bending and torsion and calculate stresses on different section of materials. Determine the diameter of a shaft under combined bending and torsion.
CO4	Draw and calculate shear force and bending moment diagrams of beam under given loading.
CO5	Calculate stresses in thin cylindrical shells. Calculate critical axial loads on column under different end constraints.

Surveying I (4th Semester) (Course Code – C402)

CO	Course Outcome (The Student would be able to)
CO1	Basics principles, concepts, and purpose of surveying, measurements and its units, Instruments used and their classification.
CO2	Purpose, principles, advantages and disadvantages of chain surveying. Direct and indirect ranging. Errors in chain surveying and their corrections.
CO3	Purpose of compass surveying, Prismatic compass, Concept of meridian and bearing. Concept of local attraction and calculation of included angles in a compass traverse.
CO4	Concepts of leveling, Instruments used in leveling, (Dumpy level, Auto level, Levelling staff, Theodolite) Methods of determining reduced levels by Height of instrument and Rise and Fall method.
CO5	Purpose of plane table surveying, and equipments used in it. Setting and methods of plane table surveying. Concept of Two point and Three point problem.

Soil Mechanics and Foundation Engineering (5th Semester) (Course Code – C505)

CO	Course Outcome (The Student would be able to)
CO1	Importance of soil studies in Civil engineering and classification of soil. Three phase diagram concept with its application. To determine engineering properties of soil (Particle size, Relative density). To understand the concept of Atterberg's limit. Field tests for soil.
CO2	Concept of permeability and measurement of permeability in the laboratory. Concept of effective and total stress and their applications in engineering problems. Settlement concept.
CO3	To understand the shear behavior and strength of soil. Determination of shearing strength by direct shear test, Unconfined compression test, and Vane shear test. To understand compaction behavior of soil and laboratory compaction test.
CO4	To identify the methods of soil exploration and sample testing. Concept of bearing capacity of soil and factors affecting bearing capacity. Numericals of bearing capacity and plate load test.
CO5	To understand the concept of foundation and its types. Methods of ground improvement techniques.

Design of Steel Structures (6th Semester) (Course Code – C602)

CO	Course Outcome (The Student would be able to)
CO1	Introduction of Steel structure, its section. Design of connections (Bolted and welded). Design of Riveted connections.
CO2	Analysis and design of single and double section tension members with Gusset plate. Study of lug angles and Splices.
CO3	Analysis and design of compression members subjected to axial loads. Concept of Lacing and Battening.
CO4	To study behavior of Roof trusses and their terminologies. Concept of Purlin and Principle rafter. Introduction to column bases, design of slab base and concrete block.
CO5	Analysis and design simply supported laterally restrained steel beams. Introduction to plate girders and functions of various elements of a plate girder. Fabrication and erection of steel structures.

3.1.2. CO-PO/PSO matrices of course selected in 3.1.1. (six matrices to be mentioned; one course per semester from 1st to 6th semester)

Applied Maths-I(C102)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	2	-	-	-	-	-	-	2	1	-	-
CO2	3	2	2	-	2	-	-	2	2	2	2	2
CO3	3	-	1	-	-	-	1	-	1	-	1	2
CO4	3	2	2	2	2	-	-	-	2	2	3	3
CO5	3	2	3	2	2	2	2	2	3	2	3	3
Average	3	1.6	1.6	0.8	1.2	0.4	0.6	0.8	2	1.4	1.8	2

Applied Mechanics(C203)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	1	-	-	1	1	1	-	2	2
CO2	2	3	1	-	1	-	-	-	-	2	2	2
CO3	3	2	1	1	1	1	-	-	2	2	2	2
CO4	3	3	2	-	-	-	-	-	1	-	3	3
CO5	3	3	1	-	1	-	-	-	2	1	3	3
Average	2.8	2.8	1.4	0.4	0.6	0.2	0.2	0.2	1.2	1.0	2.4	2.4

Structural mechanics (C304)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	2	2	2	2	1	2	1	2	3	2	2
CO2	3	2	2	3	2	-	-	2	2	3	2	1
CO3	3	2	3	2	2	-	2	2	1	3	3	2
CO4	3	3	3	2	3	2	1	2	3	2	1	1
CO5	3	2	2	2	2	1	1	2	1	3	2	2
Average	3	2.2	2.4	2.2	2.2	0.8	1.2	1.8	1.8	2.8	2.0	1.6

Surveying 1 (C404)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	3	3	2	1	2	2	2	2	2	2
CO2	3	3	3	3	2	1	1	2	2	2	2	2
CO3	3	3	3	3	2	1	1	3	2	2	2	3
CO4	3	3	2	2	2	1	1	3	2	1	2	1
CO5	3	3	2	2	1	1	1	2	2	1	3	2
Average	3	3	2.6	2.6	1.8	1	1.2	2.4	2.0	1.6	2.2	2

Soil Mechanics and Foundation Engineering (C504)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	1	1	2	2	2	2	2
CO2	3	3	3	2	2	2	1	3	2	2	2	2
CO3	3	2	3	2	2	2	1	2	2	2	2	3
CO4	3	2	2	2	2	2	1	2	1	2	2	2
CO5	3	2	3	3	2	2	1	2	2	3	2	2
Average	3	2.4	2.6	2.2	2.0	1.8	1.0	2.2	1.8	2.2	2.0	2.2

Design of Steel Structure (C603)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	3	3	2	1	3	2	3	2	2
CO2	3	3	2	2	2	2	2	3	2	3	3	2
CO3	3	3	2	2	2	2	2	3	2	3	3	3
CO4	3	2	3	2	3	2	1	2	2	2	2	2
CO5	3	2	2	2	2	2	1	2	2	3	2	2
Average	3.0	2.6	2.2	2.2	2.4	2.0	1.6	2.6	2.0	2.8	2.4	2.2

3.1.3 Program Level Course-PO/PSO matrix of all courses including first year course

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
C102	3.0	1.6	1.6	0.8	1.2	0.4	0.6	0.8	2	1.4	1.8	2.0
C203	2.8	2.8	1.4	0.4	0.6	0.2	0.2	0.2	1.2	1.0	2.4	2.4
C304	3.0	2.2	2.4	2.2	2.2	0.8	1.2	1.8	1.8	2.8	2.0	1.6
C404	3.0	3.0	2.6	2.6	1.8	1.0	1.2	2.4	2.0	1.6	2.2	2.0
C504	3.0	2.4	2.6	2.2	2.0	1.8	1.0	2.2	1.8	2.2	2.0	2.2
C603												
	3.0	2.6	2.2	2.2	2.4	2.0	1.6	2.6	2.0	2.8	2.4	2.2
Average	2.96	2.43	2.13	1.73	1.7	1.03	0.96	1.66	1.8	1.96	2.13	2.06

3.2 Attainment of Course Outcomes

3.2.1. Describe the assessment processes used to gather the data upon which the evaluation of course Outcome is based

A. List of assessment processes

Direct Assessment methods are formative as well as summative. Following processes have been undertaken to find the direct attainment of course outcomes. For direct attainment the mid-semester test or sessional test result and BTE, UP end semester result is taken into consideration.

Continuous internal evaluation¹

Mid-Semester Tests (CT1, CT2)

- Two mid-semester tests are conducted in each semester – one after 6 weeks from commencement of classes, and second at last at the end of semester.
- Faculties are guided by sample question papers and previous year papers as guide lines for setting question paper for mid-semester tests.
- Course outcome of the subject are taken into consideration while setting up the question paper.
- After paper assessment the attainment of course outcome is found by determining the number of students having met the set standard in the said subject.
- Based on the above calculation the attainment level is found.

BTE, UP Result (Semester Theory Exam)

- BTE, UP provides teaching scheme for every semester, which includes the components viz., Theory Exam, Practical / Oral exam and term work along with the maximum marks allotted for each component.
- The marks of the applicable components are added and attainment of course outcome is found by determining the number of students who have met the set standard in the said subject.
- The direct attainment is calculated by taking into consideration the 20% of allotment level for BTE, UP.

3.2.2. Record the attainment of Course Outcomes of all courses with respect to set attainment levels

A. Verify the attainment levels as per the benchmark set for all courses

Attainment level is taken as under for BTE, UP:

- 40% students scoring more than BTE, UP theory score index = Attainment level 1.
- 50% students scoring more than BTE, UP theory score index = Attainment level 2.
- 60% students scoring more than BTE, UP theory score index = Attainment level 3.

For final practical / oral examination since BTE, UP does not provide average marks, 60% marks is considered and attainment levels are considered as follows.

- 40% students scoring more than 60% marks in final practical / oral examination = Attainment level 1.
- 50% students scoring more than 60% marks in final practical / oral examination = Attainment level 2.
- 60% students scoring more than 60% marks in final practical / oral examination = Attainment level 3.

- For progressive theory tests 1 and 2, 60% marks is taken and attainment level is considered as before.
- For progressive assessment of term work too, either class average is taken or the Course teacher decides the benchmarking and attainment level is taken as before.
- Overall attainment is then found out as sum of 80% of board assessment tools and 20% of internal assessment tools.
- CO attainment table is then prepared.
- Target attainment value is set by the course teacher depending on the difficulty level and importance of the course content and deviation if any are noted.
- Reasons for deviations and remedial measures for the same are suggested by the course teacher for meeting the target value in the ensuing semesters.
- Higher target is set for the next batch of students when the target is achieved.
- Final CO attainment is prepared, based on which the PO attainment is deduced.

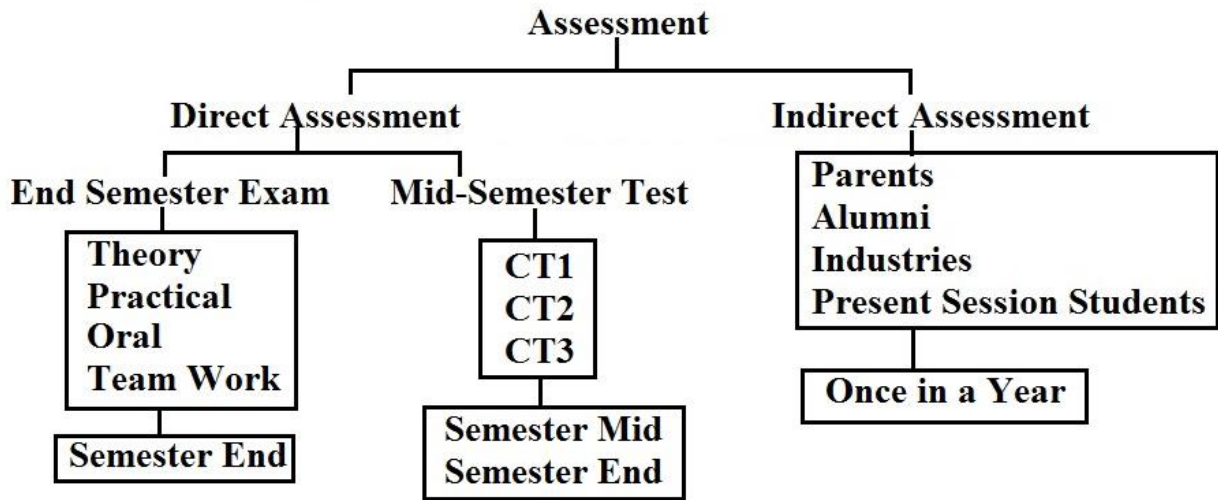
3.3. Attainment of Program Outcomes and Program Specific Outcomes

3.3.1. Describe assessment tools and processes used for assessing the attainment of each of the POs & PSOs

A. List of assessment tools & processes

- PO attainment and PSO attainment are based on CO attainment.
- CO attainment is done through external and internal assessment tools as per BTE's norms as explained in 3.2.2
- The course teacher based on CO attainment then prepares PO attainment table proportionately.
- Thus, the CO-PO matrix based on CO attainment is prepared by the course teacher which is considered as direct attainment of POs and PSOs.
- Feedback from alumni and employer are then collected for PO and PSO attainment through the curricular and co-curricular activities of diploma program of BTE, UP which is considered as indirect attainment tool.
- For indirect attainment of POs and PSOs, 5 attainment levels are considered.
- The course PO and PSO matrix is then prepared for all the courses considering 80% of direct attainment tool and 20% of indirect attainment tool.

38	Course Name	PO 1	PO 2	PO 3	PO 4	PO5	PO 6	PO 7	PO8	PO 9	PO10	PSO1	PSO2
First Semester	C101								0.5	3	2		
	C102	3	1.6	1.6	0.8	1.2	0.4	0.6	0.8	2	1.4	1.8	2
	C103	2.1	2.4	2	2	1.5	1.3			2.3	2.1	2	2.2
	C104	2.5	2.7	2.2	2	2.5	2.5	2	1.7	1	2	2.2	2.6
	C 105	2.6	2.5	2.4	2	2.2	2.4	2	1.9	1	2	2.4	2.6
	C 106	2.4	2.8	2.4	2	2.4	2.3	2	1.8	1	2	2.2	2.6
Second Semester	C201	2.4	2.4	1.8	1.8		0.8	1.4	0.6	0.8	2	2.4	2.4
	C202	2.6	2.6	2.2	2.2	1.4	1.6	2	2	2.2	3	2.2	2.2
	C203	2.8	2.8	1.4	0.4	0.6	0.2	0.2	0.2	1.2	1	2.4	2.4
	C204	1.6	0.8	2	1.8	2	2	2.2	2.2	2.4	2	2.6	2.8
Third Semester	C301	2.0	2.0	1.6	1.8	1.6	1.0	1.2	0.8	0.8	2	2.4	2.4
	C302	2.6	2.4	1.2	1.4	0.4	0.8	0.2	0.6	0.6	0.8	2.2	2.2
	C303	2.6	2.6	2	1.6	2	1.4	1	1.8	1.6	2.2	1.6	2
	C304	3	2.2	2.4	2.2	2.2	0.8	1.2	1.8	1.8	2.8	2.0	1.6
Fourth Semester	C401								0.4	3	2		
	C402	2.8	2.6	2.4	2.8	1.8	1	1.6	2	1.8	1	2.4	2
	C403	2	2.4	2.2	1.8	1.6	1.6	1.6	1.4	1.8	1.8	2.2	2.2
	C404	3	3	2.6	2.8	1.8	1	1.4	2.6	2.0	1.8	2.2	2
	C405	2.2	1.8	2.2	2	2	1.6	1.8	2	2	1.6	2.4	2.6
Fifth Semester	C501	1.6	1.8	1.6	1.8	2	1.8	1.6	1.6	2.8	2.6	2.2	2.4
	C502	2.6	2.4	1.6	1	1.8	1	1.8	1	1	0.6	2	2
	C503	2.6	2.4	1.6	0.8	0.8	0.6	0.8	0.6	1.6	1	2.2	2.2
	C504	3	2.4	2.6	2.2	2.0	1.8	1.0	2.2	1.8	2.2	2.0	2.2
	C505	2.2	2.6	2.6	2.8	2.4	1.2	2.6	2.8	2.8	2.8	2.6	1.4
Sixth Semester	C601	2.4	2.6	2.6	2.2	1.6	1.6	1.8	1.6	1.8	1	2.6	2.6
	C602	2.8	2.6	2.2	2.2	2.8	3	2	2.9	2.8	3	2.8	2.6
	C603	3.0	2.6	2.2	2.2	2.4	2.0	1.6	2.6	2.0	2.8	2.4	2.2
	C604	2.4	2.6	2.8	2.4	2.2	1.6	2.6	2.8	2.8	2.6	2.6	1.8
	C605	2.2	2.8	2.8	2.8	2.6	2.2	2.8	2.8	2.8	2.8	2.6	2.4
	Direct Attainments	2.39	2.38	2.04	1.91	1.83	1.46	1.57	1.64	1.85	1.94	2.22	2.24
	Indirect Attainments	2	2	2	2	2	2	2	2	2	2	2	2
	Total Attainments = 80% of Direct Attainments + 20% of Indirect Attainments	2.312	2.304	2.032	1.928	1.864	1.656	1.656	1.712	1.88	1.952	2.176	2.192



B) THE QUALITY / RELEVANCE OF ASSESSMENT TOOLS / PROCESSES USED

- The subject faculty based on CO attainment then prepares PO attainment table proportionately.
- Thus, the CO PO matrix based on CO attainment is prepared by the subject faculty which is considered as direct attainment of POS and PSOS.
- Feedback from alumni and employer are then collected for PO and PSO attainment through the curricular and co-curricular activities of diploma program of BTE, UP which is considered as indirect attainment tool.
- The course PO and PSO matrix is then prepared for all the courses considering 80% of direct attainment tool and 20% of indirect attainment tool.
- Course PO and Course PSO matrix based on CO attainment.

3.3.2. Provide results of evaluation of each PO & PSO

- Verification of documents, results and level of attainment of each PO/PSO (20)
- Overall levels of attainment (10)

CRITERION 4	Students' Performance	200
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Intake Information:

Item	CAY	CAYm1	CAYm2
Sanctioned intake strength of the program (N)	60	60	60
Total number of students, admitted through state level counseling(N1)	0	02	02
Number of students, admitted through Institute level quota (N2)	34	47	52
Number of students, admitted through lateral entry (N3)	05	04	06
Total number of students admitted in the Program (N1 + N2 + N3)	39	53	60

CAY – Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year

minus 1 CAYm3 - Current Academic Year minus3=Current Assessment

Year minus 2 CAYm4 - Current Academic Year minus4=Current

Assessment Year minus 3 CAYm5 - Current Academic Year

minus5=Current Assessment Year minus 4

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)		
		I Year	II Year	III Year
CAY	39	19	15	29
CAYm1	53	22	21	25
CAYm2	60	23	22	36

LYG – Last Year Graduate**LYGm1 – Last Year Graduate****minus 1 LYGm2 – Last Year****Graduate minus 2**

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated (Students with backlog in stipulated period of study)		
		I Year	II Year	III Year
CAY	39	20	33	14
CAYm1	53	23	22	02
CAYm2	60	17	04	02

4.1. Enrolment Ratio (20)

S.No.	2018 -2019	2017 – 2018	2016 - 2017
Enrolment ratio	87.17	92.45	90

$$\text{Enrolment Ratio} = (N1+N2)/N$$

Item (Students enrolled at the First Year Level on average basis during the previous three academic years including the current academic year)	Mark s
$\geq 90\%$ Students	20
$\geq 80\%$ Students	18
$\geq 70\%$ Students	16
$\geq 60\%$ Students	12
$\geq 50\%$ Students	08
$< 50\%$ Students	0

4.2. Success Rate in the stipulated period of the program (60)**4.2.1. Success rate without backlogs in any year of study (40)**

SI= (Number of students who have passed from the program without backlog)/ (Number of students admitted in the first year of that batch plus actually admitted in 2nd year via lateral entry)

Average SI = Mean of success index (SI) for past three batches

Success rate without backlogs in any year of study = $40 \times$ Average

SI

Item	Last Year Graduate, (LYG) 2018-2019	Last Year Graduate Minus 1 Batch, (LYGm1) 2017-2018	Last Year Graduate Minus 2 Batch, (LYGm2) 2017-2016
Total number of students (admitted through state level counseling + admitted through Institute on level quota+ actually admitted through lateral entry) (N1 + N2 + N3)	43	27	38
Number of students who have passed without backlogs in the stipulated period	29	25	36
Success index (SI)	0.67	0.92	0.94
Average SI	0.84		

Success Rate = 33.60

4.2.2. Success rate with backlog in stipulated period of study (20)

SI= (Number of students who have passed from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch plus actually admitted in 2nd year via lateral entry)

Average SI = mean of success index (SI) for past three

batches Success rate = 20 × Average SI

Item	Last Year Graduate, (LYG) 2018-2019	Last Year Graduate Minus 1 Batch, (LYGm1) 2017-2018	Last Year Graduate Minus 2 Batch, (LYGm2) 2016-2017
Total number of students (admitted through state level counseling + admitted through Institute on level quota+ actually admitted through lateral entry) (N1 + N2 +N3)	43	27	38
Number of students who have passed with backlog in the stipulated period	13	02	02
Success index (SI)	0.30	0.07	0.05
Average SI	0.38		

$$\text{Success Rate} = 0.38 * 20 = 7.6$$

Note: If 100% students clear without any backlog then also total marks scored will be 60 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3. Academic Performance in First Year (25)

Academic Performance Level = 2.5 * Average API

API = ((Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in First Year/ 10)) x (successful students/number of students appeared in the examination).

Successful students are those who are permitted to proceed to the second year.

Academic Performance	CAYm1 2018- 2019	CAYm2 2017- 2018	CAYm 3 2016- 2017
Mean of CGPA or Mean Percentage of all successful students (X)	6.62	6.68	6.61
Total no. of successful students (Y)	37	45	40
Total no. of students appeared in the examination (Z)	37	45	40
API = X* (Y/Z)	AP1 = 6.62	AP2 = 6.68	AP3 = 6.61
Average API = (AP1 + AP2 + AP3)/3	6.63		

$$\text{Academic performance} : 2.5 * 6.63 = 16.59$$

4.4 Academic Performance in Second Year (20)

$$\text{Academic Performance Level} = 2.0 * \text{Average API}$$

API = ((Mean of 2ndYear Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/ 10)) x (successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the final year

Academic Performance	CAYm2 2018- 2019	CAYm3 2017- 2018	CAYm 4 2016- 2017
Mean of CGPA or Mean Percentage of all successful students (X)	6.57	6.63	6.90
Total no. of successful students (Y)	38	43	26
Total no. of students appeared in the examination (Z)	46	43	26
API = x* (Y/Z)	AP1 = 5.42	AP2 = 6.63	AP3 = 6.90
Average API = (AP1 + AP2 + AP3)/3	6.31		

$$\text{Academic performance} : 2 * 6.31 = 12.63$$

4.5 Academic Performance in Final Year (15)

Academic Performance Level = 1.5 * Average API (Academic Performance Index)

API = (Mean of Final Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Final Year/10) x (successful students/number of students appeared in the examination)

Successful students are those who passed in all the final year courses

Academic Performance	Last Year Graduate, (LYG) 2018-2019	Last Year Graduate Minus 1 Batch, (LYGm1) 2017-2018	Last Year Graduate Minus 2 Batch, (LYGm2) 2016-2017
Mean of CGPA or Mean Percentage of all successful students (X)	6.88	6.95	6.68
Total no. of successful students (Y)	43	27	38
Total no. of students appeared in the examination (Z)	43	27	38
API = x* (Y/Z)	AP1= 6.88	AP2= 6.95	AP3= 6.68
Average API = (AP1 + AP2 + AP3)/3	6.83		

4.6 Placement, Higher Studies and Entrepreneurship (40)

Assessment Points = 40 X Average placement

Item	Last Year Graduate, (LYG)	Last Year Graduate Minus 1 Batch, (LYGm1)	Last Year Graduate Minus 2 Batch, (LYGm2)
Total No. of Final Year Students (N)	43	27	38

No. of students placed in companies or Government Sector (X)	12	11	07
No. of students admitted to higher studies (Y)	5	5	8
No. of students turned entrepreneur in the respective field of engineering/technology (Z)	-	-	-
$1.25X + Y + Z$	20	18.75	16.75
Placement Index (P) : $(1.25X + Y + Z)/N$	P1=0.46	P2= 0.69	P3=0.44
Average placement= (P1 + P2 + P3)/3		0.53	

Assessment point = $40 * 0.53 = 21.2$

4.6. a. Provide the placement data in the below mentioned format with the name of the program and the assessment year (separately for CAYm1, CAYm2 and CAYm3):

Programs Name and Assessment Year 2018 - 2019			
S.no	Name of the student placed	Enrollment no.	Name of the Employer
1	Abhijeet Kumar	P1626932200001	Sat3tel Infra
2	Abhishek Kumar	P1626932200047	Manas Group
3	Ajay Verma	E1726937500001	LDA
4.	Akashya Pratap singh	P1626932200027	ACC Cements
5.	Amit Yadav	E1726937500002	Sat3tel Infra
6.	Ashutosh Pandey	P1626932200019	ACC Cements
7.	Mohd. Iliyas	P1626932200055	Sat3tel Infra
8.	Raunak Sharma	P1626932200008	Sat3tel Infra / Manas Group
9.	Sahibe Alam	P1626932200020	Sat3tel Infra
10.	Sandeep kumar Rawat	P1626932200005	Sat3tel Infra

Programs Name and Assessment Year 2017 – 2018			
S.no	Name of the student placed	Enrollment no.	Name of the Employer
1.	Aman Kumar Yadav	P1626932200027	Century Cement
2.	Akash Rawat	E1626937500006	Raj Constructions
3.	Chandan kr Maurya	P1626932200025	Raj Constructions
4.	Dhanesh Kumar Singh	P1626932200037	Raj Constructions
5.	Rajendra Kumar	P1626932200013	Raj Constructions

6.	Satyam Verma	P1626932200039	Raj Constructions
7.	Shivam Verma	P1626932200024	Ories Elevators
8.	Sunil Maurya	P1626932200029	ACC Cements
9.	Sunil Yadav	P1626932200019	Ories Elevators
10.	Tanmay Singh Chauhan	P1626932200021	ACC Cements
11.	Suyeta Saha	P1626932200032	Ories Elevators

Programs Name and Assessment Year 2016 – 2017			
S.no	Name of the student placed	Enrollment no.	Name of the Employer
1.	Ankit Kumar	167229176017	Prism Cement
2.	Bijendra Prasad	167229176041	Prism Cement
3.	Gopal Singh	167229176057	Prism Cement
4.	Prinsu Kumar	167229176060	Prism Cement
5.	Ritesh Sharma	167229176066	Prism Cement
6.	Subrat Verma	167229176046	ACC Cement
7.	Vipin Kumar Sharma	167759176002	ACC Cement

Table B.4.6a

4.7 Professional Activities (20)

4.7.1 Professional societies / student chapters and organizing technical events(10)

(The Department shall provide relevant details w.r.t following points)

A. Number, quality of engineering events (05)

A club has been named “Civil Elite” in which whole year several activities are performed like workshop, guest lecture , field visit etc.

4.7.2 Publication of technical magazines, newsletters, etc. (05)

Department publish a bi-annual research journal **SAMRIDDHI** which is UGC approved .

Editor in Chief – Prof. (Dr.) B.R. Singh.

Managing editor – Dr. Prashant kumar Gangwar

Dr. P. K. singh

Souvenir of **SPEED** – Source of planet energy, environmental and disaster science

A. Quality & Relevance of the contents and Print Material (3)

Indexing Information

UGC- Journal list, Journal No. 64061

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ULRICHSWEB

Pro-Quest

J-Gate

B. Participation of Students from the program (2)

Thirty percent of the total student participated in the above mentioned events.

CRITERION 5	Faculty Information and Contributions	150
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Name of the Faculty Member	Qualification	Designation University and Year of Graduation	Designation and date of Joining the institution	Distribution of Teaching Load (%)			Years of experience	Nature of Association (Regular/Contract)	
				A (2018-19)	B(2017-18)	C (2016-17)		Faculty Receiving M.Tech/ Ph.D. during the Assessment Year	Currently associated with organization
1.Dr. Manoj Mehrotra	MBA and Phd	Principal	29-Jan- 2018	0	0	0	No	Yes	Regular
2Dr. Prashant Kumar Gangwar	M.Tech and Phd	H.O.D	15-July-2013	50	0	0	No	Yes	Regular
3.Ms. NazaanShaheen	B.Tech	Lecturer	11-Sep-2014	100	100	0	No	Yes	Regular
4.Mr. Ashutosh Srivastava	M.Tech	Sr. Lecturer	25-July 2015	100	100	0	No	Yes	Regular
5.Mrs. Sujata Sinha	M.A (English)	Sr. Lecturer	01-Aug-2016	50	50	50	No	Yes	Regular
6.Mr. Sachin Mishra	M.Sc (Maths)	Lecturer	01-Aug-2016	50	50	50	No	Yes	Regular
7.Mr. Vinay Yadav	M.Sc (Physics)	Sr. Lecturer	04-Aug-2016	50	50	50	No	Yes	Regular
8.Dr. ShriPrakash Mishra	Msc and Phd	Sr. Lecturer	06-Feb-2017	50	50	50	No	Yes	Regular
9.Mr. UrojShameem	M.Tech	Sr. Lecturer	28-July 2016	70	70	0	No	Yes	Regular

5.1

10.Ms. Smita Singh	M.Tech	H.O.D	21-Aug-2017	30	30	30	No	No	Regular
11.Mr. Anurag Singh	M.Tech	Sr. Lecturer	11-Sep-2017	0	70	70	No	No	Regular
12.Mr. Sameer Srivastav	B.Tech	Lecturer	18-Sep- 2017	100	100	100	No	No	Regular
13.Rashmi Kumar	B.Tech	Lecturer	29-Jan- 2018	0	100	100	No	No	Regular
14.Mr. Prashant Singh	B.Tech	Lecturer	15-Feb- 2018	0	0	100	No	No	Regular
15.Mr. Anoop Singh Chandel	B.Tech	Lecturer	09-Feb- 2018	0	0	100	No	No	Regular
16.Mr. Karmbeer Singh	B.Tech	Lecturer	06-Feb- 2018	0	0	100	No	No	Regular
18.Mr. PremBhushan Singh	B.Tech	Sr. Lecturer	14-July- 2018	100	100	100	NO	Yes	Regular
19.Mr.Ravi Mishra	M.Tech	Sr. Lecturer	06-Aug-2015	100	100	0	No	Yes	Regular

Student faculty ratio (SFR) + Availability of HoD

Student Faculty Ratio = N/F ;

F = No. of Faculty = $(a+b-c)$ for every assessment year

a = Total no. of fulltime regular faculty serving fully to all years of this program

b = Total no. of full-time equivalent regular faculty (considering fractional load) serving this program from other programs

c = Total no. of fulltime equivalent regular faculty (considering fractional load) of this program serving other programs

Year	Approved Intake (AI)	Actually Admitted Lateral Entry Students (LE)	Total Students (N = AI+LE)	F	SFR=N/F
CAY (2018-19)	180 (CAY+CAYm1+CAYm2)	5 (CAYm1+CAYm2)	185	8.50	18.50
CAY (2017-18)	180 (CAYm1+CAYm2+CAYm3)	4 (CAYm2+CAYm3)	184	9.70	16.73
CAY	180	5	185	9.00	18.50

(2016-17)	(CAYm2+CAYm3+CAYm4)	(CAYm3+CAYm4)			
		Average SFR for all assessment years			17.91

5.1.1 Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY (2018-19)	12	–
CAYm1 (2017-18)	13	–
CAYm2 (2016-17)	12	–

5.2 Faculty Qualifications

5.2.1 Faculty Qualification Index

$$FQ=2*(10X + 7Y)/F$$

where x is no of faculty with M.Tech (in case of humanities and science M.Phil./Ph.D.)

and y is no. of Faculty with B.Tech (In case of humanities and science MA/M.Sc.)

F is no. of faculty required to comply 1:25 faculty student Ratio

Years	X	Y	F	FQ=2*(10X+7Y)/F
CAY (2018-19)	07	06	8.50	26.35
CAYm1 (2017-18)	06	07	9.70	22.42
CAYm2 (2016-17)	03	09	9.00	20.66
Average Assessment				23.14

5.3 Faculty Retention

>=90 % faculties retained during the period of assessment (2018-19) keeping CAYm2(2016-17) as base year.

(i)total faculties in 2016-17=12, $12/12=100\%$

(i)total faculties in 2017-18=13, $13/12=108\%$

(iii)Total faculties in 2018-19=12,

$12/12 \times 100 = 100\%$

5.4 Faculty as participants in faculty development/training activities

Name of Faculty	Max 5 per faculty		
	CAYm2 2016-17	CAYm1 2017-18	CAY 2018-19
Dr. Prashant Kumar Gangwar	0	0	2
Mr. Uroj Shameem	0	2	2
Mr. Ravi Mishra	0	2	2
Md. Aquib	0	0	2
Sum	0	4	8
RF = Number of faculty required to comply with 25:1 Student-Faculty ratio as per 5.1	18.50	16.73	18.5
Assessment = $6 \times \text{Sum} / 0.5 \text{RF}$ (Marks limited to 30)	0	2.86	5.18
Average Assessment over three years (Marks limited to 30)	2.68		

5.5 Product development, consultancy, manufacturing contracts, Testing contracts

Not Applicable

5.6 Faculty performance appraisal and development system(FPADS)

A. A well-defined FPADS instituted for all the assessment years

Annual performance appraisal Report form is being filled up by every faculty.

Self assessment is done by faculty and submitted to the HOD.

HOD perform the evaluation of faculties and submit it to Director/Director General for their final recommendation.

Director/Director General after recommendation, submit the appraisal to CEO and Secretary for promotion/increment.

5.6.B. Implementation of FPADS

The FPADS has been implemented at SMS. Lucknow from 01.08.2008.

FPADS has been implemented and faculties got promotion.

5.6.C. Details of Qualification Up-gradation of Faculty

Not applicable

Criterion 6	Facilities and Technical Support
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6.1. Availability of adequate, well equipped classrooms to meet the curriculum requirements

There are three classes for Diploma Civil Engineering. The classes details are mentioned below:

S.No.	Class Room No.	Area of Class Room (in sq.m.)	Seating Capacity	Type of utilization
1	206 (Saraswati Block)	78.17991984	60	Lecture Room
2	201 (Yamuna Block)	78.17991984	60	Lecture Room
3	202 (Yamuna Block)	78.17991984	60	Lecture Room

All the classes are well equipped with black board, seats and tables.

All classes are well-ventilated, have adequate number of fans and lights.

6.2. Availability of adequate and well-equipped workshops, laboratories and technical manpower to meet the curriculum requirements

S. No.	Name of laboratory	No. of students per setup (Batch Size)	Name of Important equipment (costing more than Rs.30000)	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of Technical staff	Designation	Qualification
1	General Workshop Practice I	30	NIL	6 DAYS/ WEEK	Mr. Arun Kumar Singh	Workshop Superintendent	AMIE Section A
					Mr. Sanjeev Kumar Srivastava	Lab Assistant	ITI Fitter
					Mr. Babu Deep Chandra	Lab Assistant	ITI Mechanist
					Mr. Vinod Vishwakarma	Lab Technician	Welding Technician, PMKVY
2	General Workshop Practice II	30	Lathe Machine, Surface	6 DAYS/ WEEK	Mr. Arun Kumar Singh &	Workshop Superintendent	AMIE Section A

			Grinder, Milling Machine, Drilling Machine, Shaper Machine, CNC Machine		Mr. Sanjeev Kumar Srivastava	Lab Assistant	ITI Fitter
					Mr. Babu Deep Chandra	Lab Assistant	ITI Mechanist
					Mr. Vinod Vishwakarma	Lab Technician	Welding Technician, PMKVY
3	Applied Mechanics Lab	30	NIL	6 DAYS/ WEEK	Mr. Dharendra Mishra	Lab Instructor	Diploma (ME)
4	Basic Of Mechanical and Electrical Lab	30	NIL	6 DAYS/ WEEK	Mr. Saroj Kumar	Lab Instructor	CTI
5	Hydraulics Lab	30	Pelton wheel turbine, Francis Turbine	6 DAYS/ WEEK	Mr. Dharendra Mishra	Lab Instructor	Diploma (ME)
6	Building Materials Lab	30	NIL	6 DAYS/ WEEK	Mr. Vindesh Verma	Lab Assistant	Intermediate
7	Transportation Engineering Lab	30	Ductility Test of Bitumen Apparatus, Los Angeles Abrasion Testing Machine	6 DAYS/ WEEK	Ms. Priya Nishad	Lab Instructor	B.Tech and Diploma in Civil
8	Survey Lab	30	Total Station, G.P.S Mirror Stereoscope	6 DAYS/ WEEK	Ms. Priya Nishad	Lab Instructor	B.Tech and Diploma in Civil
9	Soil Lab	30	Direct Shear Test, Relative Density Apparatus, Standard Cone Penetration Verbal Order, Standard Dynamic Cone	6 DAYS/ WEEK	Ms. Priya Nishad	Lab Instructor	B.Tech and Diploma in Civil

			Penetration Test				
10	Building Construction Lab	30	NIL	6 DAYS/WEEK	Mr. Vindesh Verma	Lab Assistant	Intermediate
11	Concrete Lab	30	NIL	6 DAYS/WEEK	Ms. Priya Nishad	Lab Instructor	B.Tech and Diploma in Civil
12	Public Health Engineering Lab	30	BOD Incubator	6 DAYS/WEEK	Mr. Kartikey Srivastava	Lab Instructor	B.Sc (PCM)
13	Auto Cad Lab	30	NIL	6 DAYS/WEEK	Ms. Priya Nishad	Lab Instructor	B.Tech and Diploma in Civil

6.3. Additional facilities created for improving the quality of learning experience in laboratories

Not Applicable

6.4. Laboratories: Maintenance and overall ambiance

Maintenance

Regular maintenance is done by lab technicians and lab attendant of all the laboratory of Civil Engineering and Workshop. Whenever any financial assistance for repair and maintenance of lab machinery is required, the Director provides the same.

Stock registers are maintained in each lab for availability of consumable and non-consumable equipments.

Safety measures are displayed in each laboratory.

Lab Assistants are available for maintenance of machinery and equipments available in the labs.

Calibration of equipment is done frequently for proper running during practical.

Ambiance

Department has full furnished State of Art laboratories with well-equipped equipment's which are used for the courses as per BTE, UP curriculum requirements.

The chairs and tables are in good condition.

Highly qualified and experienced faculties are there to teach them in all the fields of engineering.

BTE, UP laboratory manuals are distributed to the students.

Sufficient number of windows is available for ventilation and natural light.

Each Lab is equipped with black board.

Labs are used to carry projects and students carry out their mini and major project work.

6.5. Availability of computing facility in the department.

Number of computer terminals	Students Computer Ratio	Details of Legal Software	Details of Networking	Details of Printers, Scanners, etc.
60	1:1	NA	Local Area Network using star topology	Printer – HP Laser Jet Scanner - Cannon

6.6. Language Lab

Number of Computers	Students Computer Ratio	Number of hours per week utilization	Computer Lab Used	Beneficiary
30	1:1	02 hours	Lab-1 Saraswati Block	All First Year Students

Details of learning process

- SMS, Lucknow provides language laboratory to the students for their communication development.
- It is provided by means of videos resources, pronunciation, and grammar etc module.
- Since majority of the students are from Hindi Medium background, the language lab availability is a boon to the student weak in communication.
- Weekly two hours are allotted for first year students.

CRITERION 7	Continuous Improvement	75
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7.1 Actions based on the results of evaluation of each of the POs & PSOs(25)

Identify the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs attainment levels. Measures identified and implemented to improve POs& PSOs attainment levels for the assessment years.

Actions to be written as per table in 3.3.2.

Examples of Analysis and proposed action

Sample-1- Course outcomes for a laboratory course did not measure up, as some of the lab equipment did not have the capability to do the needful (e.g., single trace oscilloscopes available where dual trace would have been better, or, non-availability of some important support software etc.). Action taken- Equipment up-gradation was carried out (with details of up-gradation)

Sample-2-In a course on EM theory student performance has been consistently low with respect to some Cos. Analysis of answer scripts and discussions with the students revealed that this could be attributed to a weaker course on vector calculus.

Action taken-revision of the course syllabus was carried out (instructor/text book changed too has been changed, when deemed appropriate).

Sample-3- In a course that had group projects it was determined that the expectations from this course about P03 (like: "to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations") were not realized as there

were no discussions about these aspects while planning and execution of the project. Action taken-Project planning, monitoring and evaluation included in rubrics related to these aspects.

A. Documentary evidence of POs and PSOs attainment levels (10)

B. Gaps identified /shortfalls/improvement from continuous improvement perspective (5)

C. Plan of action to bridge the gap and its Implementation (10)

POs &PSOs Attainment levels and Actions for improvement-CAY

PO/PSO	Target Level	Attainment Level	Observations	Actions taken
PO1:Basic of Engineering knowledge: Ability to apply knowledge of basic mathematics, science and engineering in order to solve Civil Engineering problems.				
PO1	2.39	2.312	Almost achieved	
Action 1: Tutorials based on application of Fundamental engineering knowledge for solving complex engineering problems.				
Action 2: We inspire the students to participate in technical events where they gain the knowledge of application of fundamental science and engineering				
PO2: Problem analysis (Discipline knowledge) Ability to apply specific discipline knowledge so as to solve broadly defined Civil Engineering problems.				
PO2	2.38	2.304	Almost achieved	
Action 1: We guide the students to perform proper literature survey for analyzing and solving Complex engineering problems.				

Action 2: Gained knowledge on complex engineering problems and solution on visiting industries			
PO3 Experiments and Practice: Ability to conduct standard tests and experiments to analyze and interpret the results.			
PO3	2.0	2.032	Achieved
Action: Demonstration of the use of Modern tools and software to specify fulfillment of requirement			
In engineering applications in industries. Workshops will be arranged on modern tools and its applications			
PO4: Engineering Tools Ability to apply techniques, tools and skills of Civil Engineering to describe engineering technology activities.			
PO4	1.9	1.91	Achieved
Action : Continuous assessment of Projects and seminars given to the students will help them to improve ,communication, presentation and report writing skills Seminars and training programs on communication , presentation skill will be arranged for the students			
PO5: The Engineer and Society Express knowledge to analyze societal, safety, health, cultural and legal issues.			
PO5	1.83	1.86	Achieved
Students will be motivated to include all standard parameters and constraints according to National and International safety norms and to address environmental concerns. Workshops, seminars, and industrial visits will be arranged to gain the knowledge on public Health, safety and environmental norms related to civil engineering field.			

PO6: Environment and sustainability: : Demonstrate knowledge and need of sustainable development while understanding the influence of engineering solutions on environment. .			
PO6	1.46	1.6	Achieved
New criteria will be set for next session.			
PO7 : Ethics: Apply ethical principles : Apply ethical principles and commit to professional ethics as well as responsibilities and norms of engineering practice			
PO7	1.57	1.65	Attainment fulfilled
More activities will be performed.			
PO8: Individual and team work : Function effectively as an individual, and as a member or leader in diverse/multidisciplinary teams..			
PO8	1.64	1.71	Achieved
Higher level of activities will be conducted from next session.			
PO9: Communication:: : An ability to apply oral, written and graphical communication in both technical and non-technical environments and ability to use appropriate technical literature.			
PO9	1.85	1.88	Achieved
New targets will be set from next session.			
PO10 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the context of technological changes.			
PO10	1.94	1.95	Achieved
Students will be motivated to include all standard parameters and constraints according to National and International safety norms and to address environmental concerns. Workshops, seminars, and industrial visits will be arranged to gain the knowledge on public Health, safety and environmental norms related to civil engineering field.			

PSO1: The program must demonstrate the understanding of principles to Design The program must demonstrate the understanding of principles to Design, Fabricate, Test, operations and working of basic systems and processes.			
PSO1	2.22	2.17	Almost attained
Students will be motivated to include all standard parameters and constraints according to National and International safety norms.			
PSO2 To develop technical competencies: To develop technical competencies in students to deal with practical aspects of civil engineering and site adoptability.			
PSO2	2.24	2.19	Almost attained
Action 1: Case studies will be discussed in the class of the courses related to project management.			
Action 2: The cost estimation will be included as a part of project assessment, this will improve the knowledge regarding project management and finance			

7.2 Improvement in success Index of students without thebacklog(10)

SI=(Number of students who have passed from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry) Assessment shall be based on improvement trends in success indices. Marks are awarded accordingly

Item	LYG(2018)	LYG m1(2017)	LYG m2(2016)
Success Index(from criteria 4.2.1)	0.67	0.92	0.94

- Last year graduate and m1 & m2 indicate minus one year and Minus 2 years respectively.

Assessment shall be based on improvement trends in success indices. Marks are awarded accordingly.

7.3 Improvement in placement and Higher studies(10)

Assessment is based on improvement in:

- Placement: number, quality placement, core industry, pay packages etc.
- Higher studies: admissions in premier institutions

Item	LYG(2018)	LPBm1(2017)	LPBm2(2016)
Placement index (from criteria 4.6)	0.46	0.69	0.44

7.4 Improvement in Academic performance in Finalyear(10)

Assessment is based on improvement in:

Item	LYG (2018)	LYG m1(2017)	LYG m2(2016)
Academic performance Index(From criteria 4.5)	6.88	6.95	6.68

7.5 Internal Academic Audits to Review Complete Academics & to Implement Corrective Actions on Continuous Basis (10)

Item	CAYm1(2017)	CAY m2(2016)	CAY m3(2015)
Course coverage monitoring	Course coverage monitoring in every 15 days throughout semester.	Course coverage monitoring in every 15 days throughout semester.	Course coverage monitoring in every 15 days throughout semester.
Student filled feedback survey	Student filled feedback survey takes place before final semester exam	Student filled feedback survey takes place before final semester exam	Student filled feedback survey takes place before final semester exam

7.6 New facility created in the program(10)

Assessment is based on improvement in:

Item	CAYm1(2017)	CAY m2(2016)	CAY m3(2015)
EEP class	---	----	----
Value added courses	Various value addition courses are arranged on every Saturday	No course were available	No course were available
Expert lectures in various subjects	Lecture arranged related to technical skills	Lecture arranged related to technical skills	Lecture arranged related to technical skills
Guest lectures from industry	Lecture arranged related to technical skills	Lecture arranged related to technical skills	Lecture arranged related to technical skills

Criterion 8	Student Support Systems
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8.1. Mentoring system to help at individual level

Mentoring and guidance is provided by inviting career counselors and experts who have vast industrial exposure. The workshops for developing communication skills are being organized by the institution and T&P department take care of it.

The department organizes lecture talks of Industry persons in order to improve the skills of Students. Students are also provided with industrial visits to get industry exposure.

Personality development classes are held for the students of final year in order to make the professionally ready.

Each class is headed by Class Coordinator who monitors the activities and classes of the particular class. Class Coordinator is the faculty of the department who take care of smooth running of the class. Weak students are identified and are given remedial classes. Sharp students are being motivated. The class coordinator maintains a record of his class such as students list, attendance, time-table, marks of mid-semester tests, marks of end semester exams, Toppers list, etc.

Departmental faculty organizes workshops and value addition lectures in order to update latest trends of industries to the students.

Every Saturday is the day for Value Addition to the students. Various workshops, seminars, etc are organized at departmental level.

8.2. Feedback analysis and reward/corrective measures taken, if any

The feedback from students with respect to studies and facilities is done. Feedback analysis and remedial action thereafter are inbuilt in our mentoring system. The records are maintained by each and every department.

The feedback is collected for all the subjects and all subject faculties. Lecture progress report is taken from the students as well as faculties.

The feedback is then quantified and the HOD takes remedial action.

The feedback is taken from whole class.

8.3. Feedback on facilities

The feedback on facilities is built in our mentoring system for which the feedbacks are taken from the students. The Coordinator the class and the Head of department monitor the feedback of the facilities provided to the students. Every department collects feedback on facilities as per the format. Feedback is obtained on a scale of 1 to 5. Overall rating is then quantified and submitted to the HOD. The HOD is responsible for taking remedial action over the feedbacks.

8.4. Career Guidance, Training, Placement

A. Availability

Yes the Career Guidance, Training and Placement Cell exist at the institution level. The cell is headed by Dr. Jagdish Singh and the convenor is Mr. Surendra Srivastava..Employable Enhancement Programme (EEP) is run by the institute to make the students employable. This cell is headed by Ms. Monica Saxena.

B. Management

One faculty coordinator from each department of the institution is held responsible to maintain and organize the data of career guidance, training and placement of the students. They are responsible to organize and control the entire activities of Training & placement Cell of the Institute.The EEP cell coordinates and deliberate various kinds of tools and techniques to enhance the employability of students.

C. Effectiveness

The training list and placement list is attached earlier in the report.

8.5. Entrepreneurship Cell/Technology Business Incubator

A. Availability

Yes. The Cell exists at the institute level and head by Dr. (Prof) B.R. Singh.

B. Management

The function of the EDC is to encourage, motivate and provide training to the students so that they develop confidence and risk-taking abilities to take up entrepreneurship.

C. Effectiveness

Entrepreneurship Development Cell strives to inspire and generate a culture of innovation to help budding entrepreneurs to realize their potential.

Criterion 9	Governance, Institutional Support and Financial Resources
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9.1. Organization, Governance and Transparency

9.1.1. State the Vision and Mission of the Institute

The Vision of SMS, Lucknow

To become a constantly growing center of excellence nurturing global centric professional leadership based on ethical and moral attributes.

The Mission of SMS, Lucknow

To create excellent learning ambience through innovation in teaching, research and consultancy for producing professionals capable of answering global challenges, demonstrating high ethical and moral standards.

9.1.2. Governing Body, Administrative setup, Function of Various Bodies, Defined rules procedures, recruitment and promotion policies

A. List of Governing body Composition; their memberships, functions and responsibilities

Following is the list of Governing Council (GC) of SMS, Lucknow

S.No.	Name	Post
1	Prof. S.K. Singh	Member
2	Prof. B.P. Singh	Member
3	Shri Shashi Prakash, IAS	Member
4	Lt. Gen. M.M. Lakhera	Member
5	Prof. K.P. Singh	Member
6	Prof. Rajeev Tripathi	Member
7	Shri G.K. Pillai	Member
8	Dr. C.M. Dwivedi	Member
9	Shri Ravendra Mishra	Member
10	Shri S.K. Singh	Member
11	Shri Ashok Kumar Singh	Member
12	Dr. M.P. Singh	Member
13	Er. Amitabh	Member
14	Shri Sharad Singh	Member
15	Prof. B.R. Singh	Member
16	Dr. N.B. Singh	Special Invitee

17	Prof. Manoj Mehrotra	Member Secretary
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B. Minutes of the Meetings

The following businesses were transacted:

In the absence of the Chairman, Prof. B. P. Singh, senior-most professor present, was requested to chair the Meeting. The meeting started with the welcome address by the Chairman and thereafter a two-minute silence was observed to pay tribute to the departed soul of Late Dr. Bhishma Narain Singhji, the Chairman on Board of the Governing Council of SMS Lucknow. He introduced all the members present in the meeting and then requested Prof. M. Mehrotra, Director & Member Secretary, Governing Council, SMS Lucknow to conduct further proceedings of the meeting.

Prof. M. Mehrotra, Director & Member Secretary, Governing Council, SMS Lucknow also welcomed all the members present at the meeting and apprised them of the Pioneering Initiatives taken by SMS Lucknow over the past few years and highlighted the same on the occasion completion of ten years by the Institute. Thereafter the agenda items were taken-up one by one:

Item 1 : The minutes of the meeting of the Governing Council (GC) held on 12th November, 2017 at the Conference Hall at SMS Varanasi Campus were read and confirmed.

GC Annexure-I

Item 2 : Action Taken Report (ATR) on the decisions taken in the last meeting of Governing Council held on 12th November, 2017 was placed.

GC Annexure-II

The Members considered the Report and expressed their satisfaction over the effective implementation of the decisions. They expressed their appreciation over the Pioneering Initiatives flyer, USP folder, NPTEL Achievement Brochure and Comprehensive Annual Report, presented to the House as addendum to the ATR.

Item 3: The Director & Member Secretary, GC briefed the Hon'ble members of the developments that took place in School of Management Sciences, Lucknow during the last one year (2017 – 2018):

a. The House was informed about the commencement of M.Com programme, affiliated to University of Lucknow from the session 2017-18.

b. The House was informed that School of Management Sciences, Lucknow became a Member of AMDISA (Association of Management Development Institutions in South Asia) with effect from April 2018 for a period of 3 years.

c. GC-Annexure – III

d. House was apprised about the successful organization and completion of the International Seminar on “Sources of Planet Energy, Environmental and Disaster Science: Challenges and Strategies” (SPEEDS-2017), was organized on the 9th & 10th December, 2017 in association with Council of Science & Technology (UP), The Institution of Engineers (India) U.P. State Center & Dr. A.P.J. Abdul Kalam Technical University, Lucknow. 152 papers were received, 120 papers were accepted, and 73 papers were presented at the Seminar. 38 selected papers were included in the "Proceedings of the Seminar" which was printed in the form of ISBN allotted book. Funding of Rs. 30,000/- from IEI was received for the event besides contribution from other sponsors.

GC Annexure -IV

e. House was apprised about the successful organization and completion of the two Days National Conference titled “Achieving Business Synergy through Social, Spiritual and Technological Dimensions” was organized by School of Management Sciences in association with NHRD Lucknow Chapter on 24th and 25th February, 2018. More than 164 research papers were accepted and 63 were presented by research scholars from across the country in 3 technical sessions and it included 12 Skype presentations. A Special Issue of the Journal ADHYAYAN was published carrying 11 select papers based on the Conference theme.

GC Annexure - V

f. House was apprised about the successful organization and completion of the All India Seminar on “Sources of Planet Energy, Environmental and Disaster Science: Challenges and Strategies” (SPEEDS-2018), was conducted on the 24th & 25th November, 2018 in association with The Institution of Engineers (India) U.P. State Center & Dr. A.P.J. Abdul Kalam Technical University, Lucknow. 120 papers were received, 100 papers were accepted, and 63 papers were presented at the Seminar. Selected papers would be published in "Proceedings of the Seminar" in the form of ISBN allotted book. Funding of Rs. 30,000/- from IEI was received for the event besides contribution from other sponsors.

GC Annexure-VI

g. The House was informed about opening of CISCO Networking Academy which was started on 22nd November 2018, to provide training on advanced networking technologies and leading to the CCNA Certification.

GC Annexure-VII

- h. The House was informed about the launch of the MICROSOFT Visual Studio Team Services, and CompTIA Networking Services w.e.f. 29th August 2018.

GC Annexure-VIII

- i. The House was informed that SMS Lucknow became the approved ETS Testing Partner which is a unique collaboration, for conduct of various tests of international recognition such as TOEFL, in far off Eastern UP.

GC Annexure-IX

- j. The House was informed about the remarkable achievements of SMS, Lucknow during the past one year:

- 1) SMS Lucknow was declared ranked at Number 1 position for Innovation & Start-up activities on 17th May 2018, in Dr. Kalam Entrepreneurship League (KEL), among 615 colleges (& 43 participating colleges) of Dr. APJ Abdul Kalam Technical University, Lucknow under TEQUIP III.

GC Annexure –X

- 2) 32nd rank in the all-India B-School Survey by Business India December 2017 issue.

GC Annexure -XI

- 3) Institutional Awards and Recognitions - SMS Lucknow:

GC Annexure- XII

- i. Allotted one Unit of NSS by Government of Uttar Pradesh, w.e.f. on 17th February 2018.
- ii. "Best Engineering College in North India" award under the Excellence in Education, Training & Development Awards 2018 organized by ASSOCHAM in Ranchi on 28th of February 2018.
- iii. Ranked at 1st position among all 615 colleges (& 43 participating colleges) of AKTU, Lucknow for Innovation & Start-up activities under TEQUIP III and K-CIIS of AKTU was awarded on 27th July 2018 at New Delhi.
- iv. "Brand Leadership Award 2018" in the field of Education at the UP Brand Leadership Award 2018 ceremony organized by ABP News on 18th Sept 2018 at Hotel Renaissance, Lucknow.
- v. "Educationist Award" for outstanding contribution in the field of education, by Dainik Jagran I-Next in Lucknow on 23rd Sept 2018.
- vi. "ASSOCHAM National Leadership Excellence Award in Technical Education (North)" by the Governor of Jharkhand at the National Summit on Leadership Excellence Awards ceremony 2018, at Ranchi on 26th October 2018.
- 4) Individual Awards

GC Annexure XIII

- i. Mr. Ashok Sen Gupta was conferred the "International Award for Professors with Excellence in Teaching in Higher Education 2017" by South Asia Management Association (India Chapter) at Asian Institute of Technology in Bangkok, Thailand on 2nd Dec, 2017.
 - ii. Prof. (Dr.) B.R. Singh was awarded the 'UP Kshatriya Historical Samman 2018' for his immense contribution in the field of Environmental Science & Ecology, by UP Kshatriya Loksevak Parivar Mahasamiti, Lucknow, at SKD Academy, Lucknow on 17th June 2018.
 - iii. Prof. (Dr.) B.R. Singh was felicitated with a Citation Award by Dr. APJ Abdul Kalam Technical University, Lucknow for his outstanding contribution in the field of Technical Education on Teachers Day i.e. 5th Sept 2018 at IET Lucknow Campus.
 - iv. Prof. (Dr.) Manoj Mehrotra, Director, SMS Lucknow received the "Educational Leadership Award" at the Dewang Mehta National Education Award for Education Leadership and the 26th Business School Affaire ceremony organized by ABP News at Lucknow on 18th Sept 2018.
- 5) Dr. APJ Abdul Kalam Technical University, Lucknow has now approved SMS Lucknow as the Nodal Centre for providing "Value Education".
 - 6) "Adhyayan- A Journal of Management Sciences" have been included as the Member of Journals Association of India since May 2018.

GC Annexure–XIV

The members applauded the great achievements of the institution and further attributed it to the concerted efforts of the Director and his team in taking an accelerated pace of intellectual developments over the past few years.

- j. The House was informed about the rigorous efforts made by our T&P Cell, more than 77% of students from PGDM / MBA and 68% from B.Tech courses of all disciplines, 60% from UG Programmes of Lucknow University and 82% from Diploma in Engineering, i.e. and total Institute's average of 72% in aggregate of all eligible students got suitable job placements in prestigious organizations through the Institute efforts for the academic year ending 2017.

GC Annexure-XV

The Members opined that a comparative placement status must be presented over the last year placements and must include average salary along with the highest.

- k. For the academic session 2018-19, 73.13% admissions were secured in aggregate taking both the UG & PG courses, of the current intake. However the enrolment figure stood at 62.93%.

GC Annexure- XVI.

The members opined that the drop out in admissions should be checked and retention percentage must be increased.

- l. The Selection Committee for recruitment of faculty for different programmes was held from 24th to 29th of June, 2018, and submitted to the House for approval. The Members of the House

opined that along with the list of Faculty recruited an exit list also needs to be presented.

GC Annexure-XVII

m. The House was informed about the Research initiatives that were undertaken at SMS Lucknow during the academic year 2017 - 18:

[A] 34 Research Paper Presentations were done by the faculty at various Seminar / Conferences; [B] 28 research papers were published in National & International Journals; [C] 9 Book Chapters was published; [D] Innovative projects developed under the Sir C V Raman Centre for Research & Innovation, and received awards in 7th Dr. Kalam Startup Parikrama; [E] Activities of the Vedic Science Centre; [F] Start-up Mitra Conclave 2018 organized by Entrepreneurship Cell; [G] 43 Departmental Projects were carried out by the various B.Tech Departments - (ME-12, CE - 7, CS - 15, EC - 6, EN - 3).

GC Annexure-XVIII

Item 4: The Final accounts and unaudited report of year ending March 31, 2018 (**GC Annexure – XIX a**) and the statement of the proposed budgets for the financial year 2018-19 (**GC Annexure - XIX b**) were considered by the House.

Item 5: The members considered the proposed fee-structure to be followed in regard to various courses for the academic year 2019-20, and approved the proposal.

GC Annexure-XX

Item 6: The AQAR of NAAC submitted for the year 2017-18 was tabled before the House for review and record.

GC Annexure XXI

Item 7: The members were informed about the proposed plan to organize a National Conference on "Transforming from a Developing to a Developed Economy" on 2nd & 3rd of March 2019 at the SMS, Lucknow campus, which was duly approved.

Item 8: In other deliberations of the members of the House the following also emerged:

- a) The AQAR should be first approved by IQAC and then approved by e tabled in the GC meeting for final approval.
- b) Alumni working in Corporate must be involved in the placement activities and also as Mentors for the current students.
- c) More efforts must be made by the Training & Placement Cell in increasing the networking of the Institute with Corporate and add more Recruiters every year.
- d) The Income & Expenditure and the Proposed Budget must include items as per the requirement of NAAC; also the CA Certified Audited Statement of Accounts must be submitted before the Governing Council.

- e) A Funding Cell may be created that must be entrusted the task of exploring the possibilities of getting funds from the Government for various activities like MDP, FDP, Seminars & Conferences, Research Projects, Socially oriented project, etc.
- f) Essential to participate in NIRF survey next year.
- g) New achievements of SMS and the Awards must be conveyed to the students, their parents, and all other stakeholders.
- h) Feedback system for stakeholders should be in accordance with AQAR.
- i) There is a need to change the pedagogy to more practical oriented. Move must be from a theoretical perspective to problem solving pedagogy. A workshop on improving the quality of pedagogy may also be organized.
- j) Benchmark top Management Institutes and try to adopt their Best Practices.
- k) Civil Engineering placements have to be improved and average salary package for B.Tech students also needs to be improved.
- l) "Star Alumni Award" may be initiated to award the top performing Alumni each year and get a better connect with the alumni.

The meeting came to an end with a vote of thanks to the Chair and the members present.

B. Action-Taken Report

Action Taken Report for the meeting of Governing Council held on 12th November 2017.

Item Nos. of Decisions Taken in GC Meeting, 12/11/2017	Actions taken / initiated by the Institute
(A) Reiteration of GC 2017 Item 8 (a): Coordination of SMS Lucknow & Varanasi for admissions & Placements	The common courses for both the campus are PGDM, & MBA. For both these courses placement drives for several companies is conducted jointly. Some such companies are Mother Dairy, Ceasefire, ITC, Om Logistics, SBI Life Insurance, etc. For UG courses the eligibility norms and fee structures of affiliating Universities is different. Also there are some different courses offered at the two campuses. Thus it is not becoming possible to market different courses, having different admission criteria, jointly.
(B) Reiteration of GC 2017 Item 8 (b): Explore possibility of in-house development of anti-plagiarism software or purchase the same to check the quality of	Expertise is not available to develop the anti-plagiarism software in-house. Trusted and effective software like TURNITIN will cost around Rs.5 lakhs. MRI Publisher associated with the Institutes also does the plagiarism check @ Rs. 100/- per paper, which would amount to a total of around Rs. 40,000/- per annum, for all the papers to be published in the Journals and this would be economical.

research papers & publications in Journals	
(C) Reiteration of GC 2017 Item 8 (c): Mock interview sessions to be focused for improved placement outcomes	<p>Conducting GD & Mock Interview sessions is a regular practice. To improve it further we are now implementing the practice test and interview sessions also to be conducted on the same day of the interview by the EEP Trainers & Faculty.</p> <p>Another practice is also being initiated to identify the strengths & weaknesses of each PG level student and work them up, right from the 2nd Semester onwards, so as to match the requirements of the companies that visit the campus for placements.</p>
(D) Reiteration of GC 2017 Item 8 (d): Formation of joint committees reporting to Executive Secretary for (i) Improving Consultancy (ii) NBA Accreditation (Chairman Prof K P Singh) (iii) Participation in VUA (iv) Brand Building Committee- improving ranking	<p>For (ii) In the Meeting of the Sub-committee of the NBA Accreditation held at SMS Lucknow Campus on 26th of June 2018, it was decided to get NBA Accreditation for eligible courses at both the campuses. Work is in progress to move application for NBA Accreditation for three programs B.Tech (CS), MBA, and Diploma in Engg (Civil), by December 2018. As regards (iii) instead of registration with VUA for global presence, we have opted for being a member of AMDISA (Association of Management Development Institutions in South Asia) which is again a global body and more focused on management. The membership of SMS Lucknow is approved by them for a period of three years.</p> <p>Regarding (iv) A Brand Building Committee has been formulated at SMS Lucknow campus which is taking concrete steps to increase the visibility of the brand of SMS in Electronic, Print and Social Media. Various achievements and activities of the Institute are being highlighted through these media to reach the target audience. Regular review meetings are also being conducted to monitor the progress of this Committee.</p>
(E) Reiteration of GC 2017 Item 8 (e): Marketing of Journals to be done through reputed & established publishers; and also increase paid circulation	<p>Names of Adhyayan & Samriddhi have been included in the Journals Catalog of Royal News & Subscription Agency. Talks in this regard are also in progress with other publishers of Journals, like, International Book Distributing Co. (Publishing division), Informatics Publishing Limited, and Sage Publication Company. Application for enlisting "Samriddhi" in Scopus has also been moved.</p>
(F) Reiteration of GC 2017 Item 8 (f): Do scouting	<p>For B.Tech (EN dept.) HOD is internal faculty who has completed Ph.D. from MNNIT, Allahabad and has been</p>

to get some senior, qualified, competent faculty and have PhD's as HoDs	promoted as Professor. For B.Tech (CS dept. and CE dept.) HoD's with Ph.D. has been inducted. Senior faculty has been also taken in for EC & ME dept. In Management Department an Associate Professor having Ph.D. qualification has been inducted.
(G) Reiteration of GC 2017 Item 8 (g): Provide encouragement to faculty to complete PhD & additional increments on completion	All non Ph.D. faculty members are being encouraged to get themselves enrolled for pursuing Ph.D. Currently, we have 8 faculty members with Ph.D qualification, 8 more are pursuing Ph.D. in the Management department. In the Engineering department 15 faculty members with Ph.D. are there and 6 are pursuing their Ph.D. Motivation and encouragement is also provided by giving one increment to the faculty, from the the same month of submission of proof of completion of their Ph.D.
(H) Reiteration of GC 2017 Item 8 (h): Average pass percentage to be mentioned while discussing results of each course.	Will be done by the Registrar office and adequate data will be made available during the next meeting.
(I) Reiteration of GC 2017 Item 8 (h): Analyze reasons for decline of admissions in Engg; whether general reasons or specific to SMS. Benchmark with other institutes in the region.	Reasons are of general nature affecting the entire B.Tech demand. However, due to concerted efforts the admissions for B.Tech, in 2018 there has been an increase of 23% over the last year and overall 58% (158/270) seats of B.Tech were filled-up. Due to improved placement performance of B.Tech courses in 2018, the admissions in 2019 are also likely to improve. As regards Benchmarking with other private institutes in the Lucknow region offering Engineering courses, the average admissions vs. their intake of seats is around 35.75% for the year 2018. This very well explains the improved standing of SMS in the region for this academic year.
(J) Reiteration of GC 2017 Item 8 (h): ROI on marketing for admissions must be analyzed.	A total of Rs. 99,51,762/- was spent on marketing efforts and scholarships during the year 2017-18. Total admissions for the year 2018 were 724 from all the courses combined. This gives us the marketing cost per admission as Rs. 13,745/- per head.
(K) Reiteration of GC 2017 Item 8 (h): Strengths of Management courses	Efforts are being done by all faculty, staff and the marketing team. Separate faculty teams have been formulated for marketing the PG courses. Also several review meetings have been

<p>have to be multiplied.</p>	<p>conducted and constructive steps have been taken to strengthen the PGDM course and its delivery, with a focus on attaining improved outcomes.</p>
<p>(L) Reiteration of GC 2017 Item 8 (h): Involve Alumni as mentors, win their trust and confidence, involve as Adjunct faculty, and some senior alumni as members of Governing Council.</p>	<p>Alumni records are updated regularly. Their help is also obtained in placements. Some of them are as members on various Committees. Possibility is being explored for attaching them as Adjunct faculty.</p> <p>Departmental Committees have also been formulated for review of academic inputs and syllabus that includes the following:</p> <ul style="list-style-type: none"> • Director • HOD • 2 to 3 Industry persons • 1 to 2 Alumni
<p>(M) Reiteration of GC 2017 Item 8 (h): New achievements of SMS must be highlighted & used as marketing tool</p>	<p>USP sheet about SMS (highlighting the achievements) has been prepared and widely used by the marketing team to highlight achievements of SMS to prospects and in other branding activities.</p> <p>Any new achievement is continuously posted and updated on social media like Facebook, Twitter, LinkedIn, and Whatsapp. It is also being regularly E-mailed to the alumni.</p> <p>The Biannual Newsletter, that highlights the important achievements and events at the campus, is also circulated to the students, their parents, industry and the academia.</p>
<p>(N) Reiteration of GC 2017 Item 8 (h): Explore to possibility of new courses like Sanskrit, Yoga, Business Analytics, Digital Marketing, Fashion Designing, etc.</p>	<p>Lucknow University does not give affiliation to the colleges to operate Certificate or Diploma courses on the mentioned streams. Short term courses like Digital Marketing was tried from a service provider of Google, but sufficient takers were not available to operate the course.</p> <ul style="list-style-type: none"> • CISCO Networking Academy, Microsoft Visual Studio and Computer Networking have been opened to offer value additions to the students of SMS as well as outside. • AKTU has also approved SMS Lucknow as 'NODAL CENTRE' for offering "VALUE EDUCATION COURSES". • YOGA is being explored to be started in association with other private / government bodies. • NPTEL courses for value add are being promoted among

	the students.
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C. Published service rules, policies and procedures with year of publication

The Governing Body of School of Management and Sciences has framed the rules and regulation to define and regulate the service condition of the employees of the Institution.

Service rules apply to all the employees.

The cadres of teachers along with number in each cadre, scales of pay, academic qualification, age limit, experience, mode of recruitment or any other matter governing their recruitment, promotion etc shall be as per regulation laid down by AICTE/UGC from time to time.

The policies and rules are available at the institute.

D. Extent of awareness among employees/students

All the Institutional rules and regulation are being informed to employees/students.

9.1.3. Decentralization in working and grievance redressal mechanism

A. List of name of faculty members who have been delegated powers for taking administrative decisions (As per July 2019)

S.No.	Designation	Person In-charge	Duties
1	Dean-Academics	Dr. Dharmendra Singh	Supervision and Overall academic Control of the Organization and teaching of Diploma courses and maintaining regularity / attendance & other records.
2	Diploma Coordinator	Mr. S.A.H.Rizvi (Coordinator) Mr. Mohd Aquib (Co-Coordinator)	Supervision and Overall academic Control of the Organization and teaching of Diploma courses and maintaining regularity / attendance & other records.

3	HOD CS EC EN ME CE HAS	Dr. Hemant Kr. Singh Mr. Rahul Misra Dr. Amarjeet Singh Mr. Adhir Tandon Dr. Prashant Kr. Gangwar Dr. P.K. Singh	To check attendance of students on daily basis. To ensure adherence of academic calendar activities and growth of external marks of students. To ensure the implementation of the Employability Enhancement Programme in an effective manner to the students. Priority be given to regularity & punctuality in providing various academic inputs at different levels.
4	NEWS LETTER	Dr. Mahendra Srivastava	To highlight and publish the details of academic and other related events & activities held at and through the institute during the period. To maintain the publication periodicity without fail, i.e. first week of July & January. To ensure a meaningful and robust contribution of the SMS News letter towards the overall brand equity of SMS.
5	Hostel Review & Grievance Redressal Committee	Dr. Dharmendra Singh & Mr. Satyajeet Asthana	To ensure the speedy redressal of student grievances related to the Hostel matters. To ensure the various facilities and other services, for the hostel for students. To further maintain an environment of complete discipline,

			with zero incidence of any type of ragging or undesirable practices.
	Campus Grievance Redressal Cell	Dr. Amarjeet Singh Ms. Smita Tripathi Mr. Rahul Singh, ME Mr. K.G. Sinha Mr. Pankaj Gupta Mr. Ashutosh Srivastava Ms. Diksha Shukla	To monitor the Grievance Portal and adhere to monthly reporting required by AICTE To ensure the speedy redressal of student grievances or from any other stakeholder. Maintain proper records of the grievances received and disposal / action initiated.
6	Cultural & Events Committee	Ms. Jyoti Kumari	Organise the Intra and Institutional cultural competitions To prepare the students for participating in cultural activities for various events. Event wise - subcommittee for that event must be constituted & submitted in advance- r Planning and organizing of the various programmes from time to time as mentioned
7	Anti-Ragging Committee	Prof. (Dr.) Manoj Mehrotra Dr. P.K. Singh	To ensure zero incidence of any kind of ragging to any of the student in the campus or the hostels.

8	Women's Anti-Harassment Committee	<p>Dr. Rekha Singh Mr. Asad Kareem Usmani Ms. Sujata Sinha Ms. Pooja Verma Ms. Nishtha Upmanyu (MBA) Ms. Jayati Goswami (B.Com(H)) Ms. Vanita Mishra (B.TechCS) Ms. Akriti Singh (B.TechCS) Mr. Ramesh Bhai</p>	<p>To ensure zero incidence of harassment towards women on the campus & in the hostels.</p>
9	Proctorial Board Chief Proctor	Mr. Adhir Tandon	<p>To ensure a hassle free & congenial environment with an absolute discipline among the students, both in the campus and hostels. For each weekly day, a Day Officer must be nominated by Chief Proctor. Day Officer should enter the day activities in the register & put up to the Chiefproctor. Other members should also visit the campus buildings, canteen hostel & main gates etc for smooth running of all institutional activities.</p>
10	Training & Placement Cell Chairman	Dr. Jagdish Singh	<p>To organize and control the entire activities of Training & placement Cell of the Institute.</p>

11	Employability Enhancement Programme (EEP)	Ms. Monica Saxena	To coordinate and deliberate various kinds of tools and techniques to enhance the employability of students.
12	Alumni Association Cell	Dr. Dharmendra Singh	To continuously explore the contacts with the passed_out students and organize meetings of Alumni Association at different cities across the cities such as Delhi, Mumbai, Bangalore, etc. To create a database in regard to our alumni.
13	Research & Innovation Cell	Dr. B. R. Singh	Promoting and facilitating research and consultancy activities of the Institute. Lead the Innovation Project, build and maintain Institute's capability to innovate and secure its long term goal to devise innovative products, services or processes so as to benefit the society and the nation as a whole. Supervise, evaluate and validate the innovative products, services and processes to ensure that they are developed and implemented successfully. Create a culture that encourages uniqueness and innovation.

14	NBA Accreditation Cell	Prof Dr. B.R. Singh	To take up the various activities pertaining to the accreditation as well as association with National Board of Accreditation (NBA) and the Association of Indian Universities towards the developmental causes of SMS. . Initiate the process in the month of September, 2018.
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B. Specify the mechanism and composition of grievance redressal mechanism

S.No.	Designation	Person In-charge	Duties
1	Hostel Review & Grievance Redressal Committee	Dr. Dharmendra Singh Chairman (Boys'Hostel) Dr. Hemant Kr. Singh Co-Chairman Members: Mr. Rahul Singh Mr. Alok Singh Dr. Ajay Singh Yadav Mr. Priyank Sharma Warden Boys Hostel Mr. Satyajeet Asthana Chairman (Girls'Hostel) Members: Ms. Suchita Vishwakarma Ms. Sujata Sinha Ms. Jyoti Kumari Warden Girls Hostel	To ensure the speedy redressal of student grievances related to the Hostel matters. To ensure the various facilities and other services, for the hostel for students. To further maintain an environment of complete discipline, with zero incidence of any type of ragging or undesirable practices.

2	Campus Grievance Redressal Cell	<p>Co-ordinator: Dr. Amarjeet Singh</p> <p>Members:</p> <p>Ms. Smita Tripathi Mr. Rahul Singh, ME Mr. K.G. Sinha Mr. Pankaj Gupta Mr. Ashutosh Srivastava Ms. Diksha Shukla</p>	<p>To monitor the Grievance Portal and adhere to monthly reporting required by AICTE</p> <p>To ensure the speedy redressal of student grievances or from any other stakeholder.</p> <p>Maintain proper records of the grievances received and disposal / action initiated.</p>
3	Anti-Ragging Committee	<p>Prof. (Dr.) Manoj Mehrotra Dr. P.K. Singh</p> <p>Members:</p> <p>Mr. Amarjeet Singh Mr. T.P. Singh Mr. Manish Singh Dr. Dolly Roy Choudhary Warden Boys Hostel Warden Girls Hostel Mr. Rishabh Kapoor (Student Representative) Er. S.N. Singh (Parent Representative) Mr. Surya Pratap Singh (Media Representative) Shri Ramesh Bhai (NGO Representative)</p>	<p>To ensure zero incidence of any kind of ragging to any of the student in the campus or the hostels.</p>
4	Women's Anti-Harassment Committee	<p>Dr. Rekha Singh Mr. Asad Kareem Usmani Ms. Sujata Sinha Ms. Pooja Verma Ms. Nishtha Upmanyu (MBA) Ms. Jayati Goswami (B.Com(H)) Ms. Vanita Mishra (B.TechCS) Ms. Akriti Singh (B.TechCS) Mr. Ramesh Bhai</p>	<p>To ensure zero incidence of harassment towards women on the campus & in the hostels.</p>

5	Proctorial Board	<p>Chief Proctor Mr. Adhir Tandon Dy. Chief Proctor Dr. Prashant Kumar Gangwar</p> <p>Members: Mr. Rahul Mishra Dr. Amarjeet Singh Dr. Hemant Kr. Singh Mr. K.G. Sinha Mr. Vinay Yadav Dr. V.D. Tripathi Ms. Sujata Sinha Dr. S.A.A. Rizvi Dr. Dolly Roy Choudhary Mr. Asad Raza</p>	<p>To ensure a hassle free & congenial environment with an absolute discipline among the students, both in the campus and hostels. For each weekly day, a Day Officer must be nominated by Chief Proctor. Day Officer should enter the day activities in the register & put up to the Chief proctor. Other members should also visit the campus buildings, canteen hostel & main gates etc for smooth running of all institutional activities.</p>
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9.1.5. Transparency and availability of correct/unambiguous information in public domain

The institute's website www.smslucknow.com includes all information about Diploma Department. Various committees, notices are regularly posted including the Academic Calendar, Tuition Fees, forthcoming events in the departments and all information related to examination.

9.2 Budget Allocation, Utilization, and Public Accounting at Institute Level

CAYm1: 2018-19

Total Income in 2018-19: Rs.132808510.70				Actual Expenses in 2018-19: Rs.139547973.58			Total No. of students in 2018-19 : 1947
Fee	Govt.	Grants	Other Sources (Specify)	Recurring including salaries	Non-recurring	Special Projects/ Any other,	Expenses per student

						specify	
128513099.7	NA	NA	4295412	132359834.6	7188139	NA	71673.33004

Diploma Total Income in 2018-19: Rs.				Actual Expenses in 2018-19: Rs.			Total No. of students in 2018-19 :
20215110.58				21950896.24			355
Fee	Govt.	Grants	Other Sources (Specify)	Recurring including salaries	Non-recurring	Special Projects/ Any other, specify	Expenses per student
20215110.58	NA	NA	NA	20820201.98	1130694.261	NA	61833.51054

CAYm2: 2017-18

Total Income in 2017-18: Rs.124787682.56				Actual Expenses in 2017-18: Rs.129781950.20			Total No. of students in 2017-18 : 1918
Fee	Govt.	Grants	Other Sources (Specify)	Recurring including salaries	Non-recurring	Special Projects/Any other, specify	Expenses per student
122216108	NA	NA	2571574	122071455.2	7710495	NA	67665.25036

Diploma Total Income in 2017-18: Rs.				Actual Expenses in 2017-18: Rs.			Total No. of students in 2017-18 : 325
19224593.79				19994003			
Fee	Govt.	Grants	Other Sources (Specify)	Recurring including salaries	Non-recurring	Special Projects/Any other, specify	Expenses per student
19224593.8	NA	NA	NA	18806136	1187867	NA	61520.00923

9.3. Department Specific Budget Allocation, Utilization

Total Budget at Department Level for 2018-19

Total Budget in 2018-19: Rs. 9000000		Actual expenses in 2018-19: Rs. 8347523.92	
Recurring	Non-Recurring	Recurring	Non-Recurring
8500000	500000	7917541.598	429982.3247

Total Budget at Department Level for 2017-18

Total Budget in 2017-18: Rs. 8000000		Actual expenses in 2017-18: Rs. 7751521.16	
Recurring	Non-Recurring	Recurring	Non-Recurring
7500000	500000	7290994.26	460526.9

Total Budget at Department Level for 2016-17

Total Budget in 2016-17: Rs. 7200000		Actual expenses in 2016-17: Rs. 6872818.94	
Recurring	Non-Recurring	Recurring	Non-Recurring
6200000	1000000	6107684.14	765134.8

9.4. Library and Internet

9.4.1 Quality of learning resources

Purchase Year	Amount in Rs.
2016-17	76206.00
2017-18	45475.70
2018-19	79436.45

Total Text Books	Reference Books	Total Volumes
1848	447	2295

Year	Journals		Magazines
	National	International	
2017	16	4	12
2018	11	3	12
2019	11	3	12

Newspapers

Daily nine (9) newspaper of which five (5) are Hindi and four (4) are English.

9.4.2 Internet

A. Available bandwidth

Fiber optic network is used for the internet.

Free, unlimited access to internet for all stakeholders inside the campus

Name of Internet Provider	Airtel
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Available Bandwidth	15 MBPS
Wi-Fi Availability	Yes, by excess points
Internet /Wi-Fi access in labs, library and offices of Departments	Yes
Security Arrangements	Microsoft Security Essential

9.5 Institutional Contribution to the community development/Go-Green

C.V. Raman Center for Research and Innovation, an initiative of SMS, Lucknow has circulated several steps to contribute towards community development and going green. They are change a light bulb by CFL or LED lights, drive less, recycle more and buy recycled products, use less hot water, check your tyres for good mileage, avoid products with a lot of packaging, adjust your thermostat, plant a tree, turn off electronic devices when not in use, stay informed.

SMS, Lucknow has adopted 5 villages under Unnat Bharat Abhiyan and making them aware about ban of single use plastic, cleanliness, and utilization of renewable energy resources. The names of the villages are Dularmau, Bedariya, Kuryani, Salauli, Malauli.

SMS, Lucknow campus has installed 38.5 kW Solar Roof Top Plant which is generating approximate 150-190 units per day and on holidays less power is automatically fed to grid for contributing to society need.

SMS, Lucknow campus has installed two recharging wells to cater entire rain water of the campus to get recharged into earth.

SMS, Lucknow campus has been declared Completely Green Campus as per Green Audit Report. It is Environmental Friendly College because along with many developmental processes the college is not ignoring the environmental importance at any stage of its development.

9.6 Alumni Performance and Connect

The School of Management and Sciences, Lucknow has formed an Alumni Association to provide an active framework for professional development, interaction and networking for the holistic development of alumni association. All those students who have completed their diploma, under graduation and post graduation programs at SMS, Lucknow are eligible for membership in SMS Alumni Association.

Most of the members of this association today work in different domestic and multinational companies. Even some have stepped into higher education and research work.

It facilitates networking among alumni for reunion, meetings and other activities.

It also helps them for career development. This also tries for interaction of alumni with current SMS students.

Alumni meet is conducted every year.

We have Alumni registration portal on our website. We also invite our alumni for guest lectures and seminars. Some of distinguished alumni are also a part of our IQAC cell.

Dated : 17-10-2019

Declaration

The head of the institution needs to make a declaration as per the format given below:

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self-Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA in case any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.



Date : 17-10-2019

Prof. (Dr.) Manoj Mehrotra

Director

Place : Lucknow

ANNEXURE – 1**LIST OF PROGRAM OUTCOMES**

PO1	Engineering Knowledge: Ability to apply knowledge of basic mathematics, science and engineering in order to solve Civil Engineering problems.
PO2	Discipline Knowledge: Ability to apply specific discipline knowledge so as to solve broadly defined Civil Engineering problems.
PO3	Experiments and Practice: Ability to conduct standard tests and experiments to analyze and interpret the results.
PO4	Engineering Tools: Ability to apply techniques, tools and skills of Civil Engineering to describe engineering technology activities.
PO5	The Engineer and Society: Express knowledge to analyze societal, safety, health, cultural and legal issues.
PO6	Environment and Sustainability: Demonstrate knowledge and need of sustainable development while understanding the influence of engineering solutions on environment.
PO7	Ethics: Apply ethical principles and commit to professional ethics as well as responsibilities and norms of engineering practice.
PO8	Individual and team work: Function effectively as an individual, and as a member or leader in diverse/multidisciplinary teams.
PO9	Communication: An ability to apply oral, written and graphical communication in both technical and non-technical environments and ability to use appropriate technical literature.
PO10	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the context of technological changes.

LIST OF PSO's

PSO1	The program must demonstrate the understanding of principles to Design, Fabricate, Test, operations and working of basic systems and processes.
PSO2	To develop technical competencies in students to deal with practical aspects of civil engineering and site adoptability.