



## YEARLY STATUS REPORT - 2022-2023

### Part A

#### Data of the Institution

##### 1. Name of the Institution

SHIVALIK COLLEGE OF ENGINEERING

- Name of the Head of the institution

PRAHALAD SINGH

- Designation

DIRECTOR

- Does the institution function from its own campus?

Yes

- Phone no./Alternate phone no.

- Mobile No:

7900800057

- Registered e-mail

director@sce.org.in

- Alternate e-mail

drkuldeep.panwar@sce.org.in

- Address

Shimla Bypass Road, Shiniwala,  
Sherpur, Deharadun

- City/Town

Dehradun

- State/UT

Uttarakhand

- Pin Code

248197

##### 2. Institutional status

- Affiliated / Constitution Colleges

- Type of Institution

Co-education

- Location

Rural

- Financial Status **Self-financing**
- Name of the Affiliating University **Veer Madho Singh Bhandari  
Uttarakhand Technical University**
- Name of the IQAC Coordinator **Dr. Kuldeep Panwar**
- Phone No. **9760305410**
- Alternate phone No.
- Mobile **9760305410**
- IQAC e-mail address **drkuldeep.panwar@sce.org.in**
- Alternate e-mail address **kuldeeppanwar.kec@sce.org.in**

### 3. Website address (Web link of the AQAR (Previous Academic Year)

### 4. Whether Academic Calendar prepared during the year? **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: <https://shivalikcollege.edu.in/academic-calendar/>

### 5. Accreditation Details

| Cycle          | Grade     | CGPA        | Year of Accreditation | Validity from     | Validity to       |
|----------------|-----------|-------------|-----------------------|-------------------|-------------------|
| <b>Cycle 1</b> | <b>A+</b> | <b>3.38</b> | <b>2023</b>           | <b>10/06/2023</b> | <b>09/06/2028</b> |

### 6. Date of Establishment of IQAC **14/01/2019**

### 7. Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

| Institutional/Department /Faculty | Scheme     | Funding Agency | Year of award with duration | Amount     |
|-----------------------------------|------------|----------------|-----------------------------|------------|
| <b>Nil</b>                        | <b>Nil</b> | <b>Nil</b>     | <b>Nil</b>                  | <b>Nil</b> |

### 8. Whether composition of IQAC as per latest NAAC guidelines **Yes**

- Upload latest notification of formation of IQAC [View File](#)

**9.No. of IQAC meetings held during the year 4**

- Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? **Yes**

- If No, please upload the minutes of the meeting(s) and Action Taken Report [View File](#)

**10.Whether IQAC received funding from any of the funding agency to support its activities during the year? No**

- If yes, mention the amount

**11.Significant contributions made by IQAC during the current year (maximum five bullets)**

1. Applied and conferred Autonomous Status by UGC.
2. Conduction of 7 days FDP on Outcome Based Education in collaboration with other institutes.
3. Creation of an Institutional Repository.
4. Conducted Academic & Administrative Internal & External Audits.
5. Introduced Value Added Course (VAC) of 35 hours on Design Thinking for all UG programs.

**12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year**

| Plan of Action  | Achievements/Outcomes  |
|---|--|
| <p>Recommended and organized various activities/ Events / programmes</p>  | <p>1. 7 days Faculty Development Programme on Outcome Based Education and its implementation<br/> 2. Student Induction Programme<br/> 3. Design Thinking Workshop for Faculty<br/> 4. Book Donation Campaign<br/> 5. Academic &amp; Administrative Audit<br/> 6. Women Safety Audit<br/> 7. Energy and Green Audit<br/> 8. IQAC Newsletter Publication</p> |
| <p>Student Induction Programme</p>  | <p>The IQAC conducted online Student Induction Programmes per UGC guidelines. All first year students attended the SIP and submitted the feedback. (1/09/2022 - 15/09/2022)</p>  |
| <p>Conducted Academic and Administrative Audit (AAA)</p>                  | <p>The Academic and Administrative Audit (AAA) 2021-22 of the institution conducted and both internal as well as external evaluation committee audited the reports. Both reports uploaded on institution website for stakeholders.</p>   |
| <p>Gender Audit, Energy audit, Green Audit of the institution 2022-23</p> | <p>Conducted Gender audit ( with ICC), Energy audit and Green of the institution separately. The reports prepared and evaluated from external committees with certification. The action taken reports of previous academic year reports included in the current reports. Each report uploaded on the institution website.</p>                              |
| <p>Preparation of Programme &amp; course outcomes</p>                     | <p>The institution has prepared programme outcomes (POs), Programme specific outcomes (PSOs) and Course outcomes (COs)</p>   |
| <p>Encourage faculty for</p>  | <p>The IQAC conduct personal audits</p>  |

|  |  |
|--|--|
| participation in FDP, refresher, orientations programme for enrichments academic level | of teachers at the end of every academic year. As per recommendation of the IQAC, faculty members enrich academic level through participation in FDP, refresher, orientations programme. Total participation (63) out of which FDP-51, Refresher 04, Orientation.08. |
| Prepare and Apply for UGC Autonomus Status for the institute                           | Conferred Autonomous Status by UGC (16/11/2023)  |
| IQAC report book 2022-23   | The IQAC prepared a booklet of the events/ programmes organized by the various departments. The report of each programme was analyze and evaluated from IQAC   |

**13. Whether the AQAR was placed before statutory body?** Yes

- Name of the statutory body

| Name                | Date of meeting(s) |
|---------------------|--------------------|
| Board of Management | 30/12/2023         |

**14. Whether institutional data submitted to AISHE**

## Part A

### Data of the Institution

|  |   |
|--|---|
| <b>1.Name of the Institution</b>                     | SHIVALIK COLLEGE OF ENGINEERING                               |
| • Name of the Head of the institution                | PRAHALAD SINGH  |
| • Designation  | DIRECTOR  |
| • Does the institution function from its own campus? | Yes   |
| • Phone no./Alternate phone no.                      |   |
| • Mobile No:   | 7900800057  |
| • Registered e-mail                                  | director@sce.org.in   |
| • Alternate e-mail                                   | drkuldeep.panwar@sce.org.in                                   |
| • Address  | Shimla Bypass Road, Shiniwala, Sherpur, Deharadun             |
| • City/Town  | Dehradun  |
| • State/UT   | Uttarakhand   |
| • Pin Code   | 248197  |
| <b>2.Institutional status</b>                        |   |
| • Affiliated / Constitution Colleges                 |   |
| • Type of Institution                                | Co-education  |
| • Location   | Rural   |
| • Financial Status                                   | Self-financing  |
| • Name of the Affiliating University                 | Veer Madho Singh Bhandari<br>Uttarakhand Technical University |
| • Name of the IQAC Coordinator                       | Dr. Kuldeep Panwar  |

|  |   |                |                             |               |             |
|--|---|----------------|-----------------------------|---------------|-------------|
| • Phone No.  | 9760305410  |                |                             |               |             |
| • Alternate phone No.  |   |                |                             |               |             |
| • Mobile   | 9760305410  |                |                             |               |             |
| • IQAC e-mail address  | drkuldeep.panwar@sce.org.in   |                |                             |               |             |
| • Alternate e-mail address   | kuldeeppanwar.kec@sce.org.in  |                |                             |               |             |
| <b>3.Website address (Web link of the AQAR (Previous Academic Year))</b>   |   |                |                             |               |             |
| <b>4.Whether Academic Calendar prepared during the year?</b>   | Yes   |                |                             |               |             |
| • if yes, whether it is uploaded in the Institutional website Web link:  | <a href="https://shivalikcollege.edu.in/academic-calendar/">https://shivalikcollege.edu.in/academic-calendar/</a> |                |                             |               |             |
| <b>5.Accreditation Details</b>   |   |                |                             |               |             |
| Cycle  | Grade   | CGPA           | Year of Accreditation       | Validity from | Validity to |
| Cycle 1  | A+  | 3.38           | 2023                        | 10/06/2023    | 09/06/2028  |
| <b>6.Date of Establishment of IQAC</b>   |   |                | 14/01/2019                  |               |             |
| <b>7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,</b>   |   |                |                             |               |             |
| Institutional/Department /Faculty  | Scheme  | Funding Agency | Year of award with duration | Amount        |             |
| Nil  | Nil   | Nil            | Nil                         | Nil           |             |
| <b>8.Whether composition of IQAC as per latest NAAC guidelines</b>   |   |                | Yes                         |               |             |
| • Upload latest notification of formation of IQAC  |   |                | <a href="#">View File</a>   |               |             |
| <b>9.No. of IQAC meetings held during the year</b>   |   |                | 4                           |               |             |
| • Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? |   |                | Yes                         |               |             |

|  |                           |  |
|--|---------------------------|--|
| <ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>   | <a href="#">View File</a> |  |
| <b>10. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>   | <b>No</b>                 |  |
| <ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>   |                           |  |
| <b>11. Significant contributions made by IQAC during the current year (maximum five bullets)</b>   |                           |  |
| 1. Applied and conferred Autonomous Status by UGC.   |                           |  |
| 2. Conduction of 7 days FDP on Outcome Based Education in collaboration with other institutes.   |                           |  |
| 3. Creation of an Institutional Repository.  |                           |  |
| 4. Conducted Academic & Administrative Internal & External Audits.   |                           |  |
| 5. Introduced Value Added Course (VAC) of 35 hours on Design Thinking for all UG programs.   |                           |  |
| <b>12. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year</b> |                           |  |
|  |                           |  |



| Plan of Action  | Achievements/Outcomes   |
|---|---|
| <p>Recommended and organized various activities/ Events / programmes</p>  | <p>1. 7 days Faculty Development Programme on Outcome Based Education and its implementation<br/>2. Student Induction Programme<br/>3. Design Thinking Workshop for Faculty<br/>4. Book Donation Campaign<br/>5. Academic &amp; Administrative Audit<br/>6. Women Safety Audit<br/>7. Energy and Green Audit<br/>8. IQAC Newsletter Publication</p> |
| <p>Student Induction Programme</p>  | <p>The IQAC conducted online Student Induction Programmes per UGC guidelines. All first year students attended the SIP and submitted the feedback. (1/09/2022 - 15/09/2022)</p>   |
| <p>Conducted Academic and Administrative Audit (AAA)</p>                  | <p>The Academic and Administrative Audit (AAA) 2021-22 of the institution conducted and both internal as well as external evaluation committee audited the reports. Both reports uploaded on institution website for stakeholders.</p>  |
| <p>Gender Audit, Energy audit, Green Audit of the institution 2022-23</p> | <p>Conducted Gender audit ( with ICC), Energy audit and Green of the institution separately. The reports prepared and evaluated from external committees with certification. The action taken reports of previous academic year reports included in the current reports. Each report uploaded on the institution website.</p>                       |
| <p>Preparation of Programme &amp; course outcomes</p>                     | <p>The institution has prepared programme outcomes (POs), Programme specific outcomes (PSOs) and Course outcomes (COs)</p>  |

|  |   |
|--|---|
| Encourage faculty for participation in FDP, refresher, orientations programme for enrichments academic level | The IQAC conduct personal audits of teachers at the end of every academic year. As per recommendation of the IQAC, faculty members enrich academic level through participation in FDP, refresher, orientations programme. Total participation (63) out of which FDP-51, Refresher 04, Orientation.08. |
| Prepare and Apply for UGC Autonomus Status for the institute   | Conferred Autonomous Status by UGC (16/11/2023)   |
| IQAC report book 2022-23   | The IQAC prepared a booklet of the events/ programmes organized by the various departments. The report of each programme was analyze and evaluated from IQAC  |

|  |            |
|--|------------|
| <b>13.Whether the AQAR was placed before statutory body?</b> | <b>Yes</b> |
|--|------------|

- Name of the statutory body

| Name                | Date of meeting(s) |
|---------------------|--------------------|
| Board of Management | 30/12/2023         |

#### 14.Whether institutional data submitted to AISHE

| Year    | Date of Submission |
|---------|--------------------|
| 2021-22 | Nil                |

#### 15.Multidisciplinary / interdisciplinary

To grow the all-round abilities of the students like intellectual, artistic, social, physical, demonstrative, and decent in an organized manner, the college is about to preparing to include multidisciplinary subjects as per the National Educational Policy 2020. Considering the problems the students face, the college plans to set up short term and value added courses. To make the students encouraged, so that they do not

need to depend on on Government jobs but instead overlay a way towards selfemployment. As the College is preparing itself to have more of multi-disciplinary subjects it tries to identify the programme learning outcomes along with courses and unit learning outcomes that describe the exact information, skills, attitudes, and values that are to be learned by the student and would confirm that each programme reaches its goal.

The Vision of National Education Policy, to provide high quality education to every student in an incorporated manner, is well taken by the college. Moreover, Uttarakhand being the first state to implement NEP 2020 in India, the college has taken various steps to make NEP 2020 successful. The college has implemented a NEP based curriculum in the first year as directed by Uttarakhand Technical University (UTU). In order to introduce a Multidisciplinary / Interdisciplinary curriculum in higher semesters i.e 2nd Semester to 8th Semester, the college constituted the committee headed by the Director. On the committee's recommendation, the college has introduced various multidisciplinary certificate courses in emerging technologies. The main aim of such courses is to make the students not only intellectually equipped for the competitive world for getting jobs but also they can find a way towards self-employment. In view of the NEP, the college has initiated new interdisciplinary centres integrating different departments at one place. The objective of this centre is to provide the collective learning approach to achieve the NEP 2020 goals.

#### **16.Academic bank of credits (ABC):**

As per the guidelines issued by AICTE (Ref. NeGD/05-01/2022 dated 16th August 2022) and the guidelines issued by UTU (affiliating university) on dated 31st August 2022 vide Ref.1574/UTU/DigiLocker\_Id/ABC\_Id/2022-23, the college has created Academic Bank of Credit ID (ABC ID) for all students studying in 1st Semester. The digiLocker Id for all students has been created. The Academic Bank of Credits (ABC) will digitally store the academic credits earned by students. A committee under the Chairmanship of Controller of examination is constituted to sensitize and facilitate students to choose their own learning path to attain degree/Diploma/Certificates, working on the principle of multiple entry-multiple exits as well as any-time, any-where, and any-level of learning.

#### **17.Skill development:**

Realising the importance of skill education as the need of the

hour, the Shivalik College of Engineering(SCE) has planned and executed skill development initiatives across all the Engineering Departments. However, being the affiliated Institute, the restrictions in developing the regular course curriculum bound the institution to run such programs as additional value added courses. All our Engineering departments have signed MOU with training partners and various industries to upskill the students in the emerging areas of their disciplines. Some of the areas where we skilled up the students are: Web development technologies, Staad Pro design, Arduino platform, Matlab Applications (Simulink), CAD & 3D printing, CNC Programming, Automobile Engg. (by BMW) etc. Python Programming , AWS cloud Certifications. The institute has also set up a high speed computing lab for skilling up students in the area of cloud computing, Internet of Things, AI & ML, data Sciences to name a few. To provide support and make these courses truly industry relevant , MOUs have been signed with several organizations. To strengthen our students' communication skills as per the corporate needs, Shivalik College of Engineering runs the regular communication skill classes for all the students from the day of entrance into our campus. SCE regular personality development programs for all semester students and also run interview skills and aptitude training for pre-final and final year students.

#### **18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)**

The official language of content delivery at Shivalik college of Engineering is English as per statutory requirements, but in order to make students coming from rural and vernacular backgrounds comfortable, the faculty regularly route to local languages (particularly Hindi) as and when required in an informal manner. Hopefully, with NEP 2020, and country-wide drive to write books in vernacular languages, in future sufficient academic resources will be available to officially teach in the mother tongue of the students.

Fore 2022-23 the question papers of diploma courses are also being prepared in Hindi.

#### **19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):**

As a part of its initiative to acquire the quality education and to focus on transformative learning, Shivalik College of Engineering has adopted Outcome Based Education (OBE), wherein the CO's and PO's are mapped after every semester. The attainment on a scale of 1 to 3 (1 being lowest and 3 being highest) is

analyzed. College has also tried to bridge the gap of CO-PO attainments by arranging expert talks/ expert lectures, seminars/conferences relevant to the field of Engineering and are beyond the scope of the curriculum. The department advisory committee (DAC) analyses the CO-PO attainment results. The committee calculates direct and indirect attainments using the predefined methods i.e defined by NBA and NAAC guidelines. The indirect attainments are preferably calculated from surveys amongst the stakeholders

## 20.Distance education/online education:

Shivalik College of Engineering is all set to provide online education since the start of Covid -19 pandemic. Our Institute is prepared to engage classes, conduct conferences and meetings in online mode. The Institute also believes that online education has broken the geographical barriers resulting in widening the possibilities of interaction of experts and students from distant geographies. This has paved the way for adopting a hybrid mode of education in times to come. Due to the experience gained during the closure period of Covid-19, access to online education by educators and students will now have no constraint anymore. Faculties and students are encouraged to take MOOC (SWAYAM/ NPTEL) courses every semester. Students of 1st year where Choice Based Credit System (CBCS) has been implemented from the current session i.e 2022-23, the earned credit through MOOC courses can be transferred to their Academic Bank of Credit (ABC).

## Extended Profile

### 1.Programme

1.1 169

Number of courses offered by the institution across all programs during the year

| File Description | Documents                 |
|------------------|---------------------------|
| Data Template    | <a href="#">View File</a> |

### 2.Student

2.1 741

Number of students during the year

| File Description | Documents                 |
|------------------|---------------------------|
| Data Template    | <a href="#">View File</a> |

2.2

85

Number of seats earmarked for reserved category as per GOI/  
State Govt. rule during the year

| File Description | Documents                 |
|------------------|---------------------------|
| Data Template    | <a href="#">View File</a> |

2.3

163

Number of outgoing/ final year students during the year

| File Description | Documents                 |
|------------------|---------------------------|
| Data Template    | <a href="#">View File</a> |

### 3.Academic

3.1

83

Number of full time teachers during the year

| File Description | Documents                 |
|------------------|---------------------------|
| Data Template    | <a href="#">View File</a> |

3.2

83

Number of Sanctioned posts during the year

| <b>Extended Profile</b>   |                           |
|---|---------------------------|
| <b>1.Programme</b>  |                           |
| 1.1<br>Number of courses offered by the institution across all programs during the year             | <b>169</b>                |
| File Description  | Documents                 |
| Data Template   | <a href="#">View File</a> |
| <b>2.Student</b>  |                           |
| 2.1<br>Number of students during the year   | <b>741</b>                |
| File Description  | Documents                 |
| Data Template   | <a href="#">View File</a> |
| 2.2<br>Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year | <b>85</b>                 |
| File Description  | Documents                 |
| Data Template   | <a href="#">View File</a> |
| 2.3<br>Number of outgoing/ final year students during the year                                      | <b>163</b>                |
| File Description  | Documents                 |
| Data Template   | <a href="#">View File</a> |
| <b>3.Academic</b>   |                           |
| 3.1<br>Number of full time teachers during the year   | <b>83</b>                 |
| File Description  | Documents                 |
| Data Template   | <a href="#">View File</a> |

|  |    |
|--|----|
| 3.2  | 83 |
| Number of Sanctioned posts during the year |    |

| File Description | Documents                 |
|------------------|---------------------------|
| Data Template    | <a href="#">View File</a> |

|   |     |
|---|-----|
| <b>4.Institution</b>  |     |
| 4.1   | 45  |
| Total number of Classrooms and Seminar halls                      |     |
| 4.2   | 865 |
| Total expenditure excluding salary during the year (INR in lakhs) |     |
| 4.3   | 603 |
| Total number of computers on campus for academic purposes         |     |

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

**For effective curriculum delivery, the following initiatives are taken:**

- The curriculum is carefully crafted to support the syllabus contents and industrial/practical exposure to provide a congenial environment for academic excellence. The prime focus is maintained on efficacy of delivering methodologies.
- Subject wise course files are prepared which contains course scheme and syllabus, course plan & coverage, list of books required, CO-PO-PSO mapping, tutorial sheets, mid-term & university question papers, assignments, subject notes and handouts etc. as per the need prerequisite courses are discussed.
- To fill the gap between curriculum and industry needs, Student training, expert lectures of industry and academic experts are arranged on a regular basis.



- Academic activities beyond the curriculum are regularly planned. The activity calendar is prepared by each department in synchronization with the Institute's and University academic calendar.
- Institute follows a practice of conduction of Internal Academic Audit through IQAC to probe the effectiveness of teaching-learning methodologies
- Several activities like conferences, seminars, workshops, expert lectures, webinars, STTPs, FDPs etc are organized throughout the year to connect faculty and students with the latest ongoing trends and practices.
- In order to improve self learning flip classes, role play, experiential learning classes etc. are conducted for the students.

| File Description                    | Documents        |
|-------------------------------------|------------------|
| Upload relevant supporting document | No File Uploaded |
| Link for Additional information     | Nil              |

#### 1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

The college adheres to academic calendar provided by the University for conduction of continuous internal evaluation system. The academic calendar includes the dates of commencement and completion of syllabus, schedules of internal exams etc. It specifies the dates of term end examination. Tentative dates of practical exams and viva-voce and theory examinations are also given in academic calendar. The time tables are prepared and implemented accordingly. The teachers prepare teaching plans according to the academic calendar and guidelines of the College. The schedule of external examination is fixed by the University and the same is displayed on notice board for students. In case of any change in the University schedule, some changes are required to be made in internal evaluation as well. These changes are communicated to the students well in advance. However, all efforts are made by the College to adhere to the academic calendar for CIE.

The regular monitoring is done by the IQAC. Based on these review meetings some changes in schedules of activities are made if required. Further, extra lectures are scheduled to complete the syllabus before university examination. Along with continuous

internal evaluation, academic Planning contains information regarding the following activities

| File Description                     | Documents                 |
|--------------------------------------|---------------------------|
| Upload relevant supporting documents | <a href="#">View File</a> |
| Link for Additional information      | Nil                       |

**1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University**

**A. All of the above**

| File Description   | Documents        |
|--|------------------|
| Details of participation of teachers in various bodies/activities provided as a response to the metric | No File Uploaded |
| Any additional information   | No File Uploaded |

## 1.2 - Academic Flexibility

**1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented**

**1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented**

6

| File Description  | Documents                 |
|---|---------------------------|
| Any additional information                              | No File Uploaded          |
| Minutes of relevant Academic Council/ BOS meetings      | <a href="#">View File</a> |
| Institutional data in prescribed format (Data Template) | <a href="#">View File</a> |

**1.2.2 - Number of Add on /Certificate programs offered during the year****1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)**

20

| File Description  | Documents                 |
|---|---------------------------|
| Any additional information  | No File Uploaded          |
| Brochure or any other document relating to Add on /Certificate programs | <a href="#">View File</a> |
| List of Add on /Certificate programs (Data Template )                   | <a href="#">View File</a> |

**1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year**

482

**1.2.3.1 - Number of students enrolled in subject related Certificate or Add-on programs during the year**

482

| File Description  | Documents                 |
|---|---------------------------|
| Any additional information  | No File Uploaded          |
| Details of the students enrolled in Subjects related to certificate/Add-on programs | <a href="#">View File</a> |

**1.3 - Curriculum Enrichment****1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**

Shivalik College of Engineering (SCE) offers courses relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability as per the curriculum of University. The SCE organizes seminars, workshops, camps at regular intervals under the banner of Internal Complaints Committee (ICC).

- Environmental Sciences in B.Tech I yr II Semester
- Universal Human Values in B. Tech II yr (all branches)
- Energy & Environmental Engineering in B. tech II yr, Civil Engineering and Mechanical Engineering

- Environmental Engineering-I in B. Tech III yr, Civil Engineering
- Environmental Management & Sustainable Development (Open Elective)
- Environmental Impact Assessment in B. Tech III yr, Civil Engineering
- Environmental Engineering 2 in B. Tech IV yr, Civil Engineering
- Ground Water Engineering in B. Tech IV yr, Civil Engineering\
- Renewable Energy Technology in B. Tech III yr Mechanical Engineering

Institute integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the curriculum. Environmental Sciences as a course is integrated in B. Tech first year programme by university. Gender Sensitization, though not a part of curriculum, we at SCE understand the institutional responsibility of promoting such issues among stakeholders, for that we organize seminars, awareness camps, nukkad natak, plays and such other related activities at regular intervals.

| File Description   | Documents                 |
|--|---------------------------|
| Any additional information   | No File Uploaded          |
| Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum | <a href="#">View File</a> |

### 1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

38

| File Description  | Documents                 |
|---|---------------------------|
| Any additional information  | No File Uploaded          |
| Programme / Curriculum/ Syllabus of the courses   | <a href="#">View File</a> |
| Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses                    | No File Uploaded          |
| MoU's with relevant organizations for these courses, if any   | No File Uploaded          |
| Number of courses that include experiential learning through project work/field work/internship (Data Template) | <a href="#">View File</a> |

### 1.3.3 - Number of students undertaking project work/field work/ internships

459

| File Description  | Documents                 |
|---|---------------------------|
| Any additional information  | No File Uploaded          |
| List of programmes and number of students undertaking project work/field work/ /internships (Data Template) | <a href="#">View File</a> |

### 1.4 - Feedback System

|   |                     |
|---|---------------------|
| 1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders<br>Students Teachers Employers Alumni | A. All of the above |
|---|---------------------|

| File Description   | Documents        |
|--|------------------|
| URL for stakeholder feedback report  | No File Uploaded |
| Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload) | No File Uploaded |
| Any additional information(Upload)   | No File Uploaded |

**1.4.2 - Feedback process of the Institution may be classified as follows**

A. Feedback collected, analyzed and action taken and feedback available on website

| File Description                  | Documents   |
|-----------------------------------|---|
| Upload any additional information | <a href="#">View File</a>   |
| URL for feedback report           | <a href="https://docs.google.com/forms/d/e/1FAIpQLScBYe0AQ4C3rEUKWDHMBDwkHt9lNoH_gpv2PfoQxyx0i06w-Q/viewform">https://docs.google.com/forms/d/e/1FAIpQLScBYe0AQ4C3rEUKWDHMBDwkHt9lNoH_gpv2PfoQxyx0i06w-Q/viewform</a> |

**TEACHING-LEARNING AND EVALUATION**

**2.1 - Student Enrollment and Profile**

**2.1.1 - Enrolment Number Number of students admitted during the year**

**2.1.1.1 - Number of sanctioned seats during the year**

300

| File Description                        | Documents                 |
|---|---------------------------|
| Any additional information              | No File Uploaded          |
| Institutional data in prescribed format | <a href="#">View File</a> |

**2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)**

**2.1.2.1 - Number of actual students admitted from the reserved categories during the year**

45

| File Description  | Documents                 |
|---|---------------------------|
| Any additional information                                    | No File Uploaded          |
| Number of seats filled against seats reserved (Data Template) | <a href="#">View File</a> |

## 2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Advanced learners and slow learners are identified based on involvement in the classroom, performance in previous university exams, and the first internal test. Students who scored marks below 50% are categorized as slow learners and those who scored above 70% is categorized as advanced learners. Departments conduct remedial classes of one hour daily for slow learners beyond the regular class hours. For the students of Hindi Medium background, the institute provides exclusive language training by the in-house training team, to bridge the language gap and uplift the performance. Extra care is taken by faculty in monitoring the performance of slow learners, as revision classes to cater to tough topics on student request, provision of question bank of the previous years with a discussion of the way of presenting the answers in the exam to score marks.

Students are encouraged to be members of professional bodies, and participate in and organize technical events such as group discussions, and technical quizzes to develop analytical and problem-solving abilities in them. We expect to impart and nurture their technical abilities in problem-solving along with enhancement of their presentation skills and develop a spirit of teamwork in them. Opportunities are provided to develop their creativity by participating in and organizing inter-college technical fest. Semester Toppers and University rank holders are encouraged with certificates and cash prizes by the management.

| File Description                  | Documents                 |
|-----------------------------------|---------------------------|
| Link for additional Information   | Nil                       |
| Upload any additional information | <a href="#">View File</a> |

### 2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

|                    |                    |
|--------------------|--------------------|
| Number of Students | Number of Teachers |
| 741                | 80                 |

| File Description           | Documents                 |
|----------------------------|---------------------------|
| Any additional information | <a href="#">View File</a> |

### 2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

For enhancing learning experiences and student involvement, SCE believes in the adoption of students centric methods as apart of participative learning and problem solving methodology. FLIP Classes, Team works, Debates, Seminar Quizzes and case studies. Students centric Teaching Methods are reflected in project work, Field Visit, Industrial visit & guest lectures.

Student Centric Methodology includes:

1. Interactive/Participative Learning: The faculty members make learning interactive with students by motivating student participation in FLIP classes, subject quiz, Tutorials, Team Work, Debates, and Group Work. Procedure Manual of Flip Class is attached.
2. Experiential learning: Project method, Student Seminars/Conferences, Summer Internship in Industry, Participation in competition at various levels, Industrial Visits, Guest lecture
3. Problem Solving Methodology: Quizzes, Analysis and Reasoning, Research Activities

| File Description                  | Documents                 |
|-----------------------------------|---------------------------|
| Upload any additional information | <a href="#">View File</a> |
| Link for additional information   | Nil                       |

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

The ICT is widely considered the most important revolution and



the development of moveable type printing techniques. The Institute understands the need of the utilization of information and communication technology as an indicator of institutional growth. Our library facilities are using ICT-based resources and services at an accelerated pace. E-Journals, e-books, CD-ROM databases, online databases, web based resources and a variety of other electronic resources are used to facilitate the students and teachers to update themselves.

The institute understands that with the conventional infrastructure, class size, availability of teachers, quality of teachers, training of teachers, etc., it is difficult to achieve all the objectives. Further, the objectives are multi-dimensional, so for their achievement multiple methods should be used in an integrated fashion. The ICT facilities are used to bridge this gap because it can provide access to different sources of information, display of videos for student information, online access to various resources etc.

The institute functions on an ERP system, on which all the academics and institutional activities are uploaded and monitored. The lecture rooms are fitted with OHPs with laptop connectivity along with a fully software based attendance system for students. Library and stores are also well connected with the ERP system.

| File Description  | Documents                 |
|---|---------------------------|
| Upload any additional information   | <a href="#">View File</a> |
| Provide link for webpage describing the ICT enabled tools for effective teaching-learning process | Nil                       |

### 2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year )

#### 2.3.3.1 - Number of mentors

29

| File Description  | Documents                 |
|---|---------------------------|
| Upload, number of students enrolled and full time teachers on roll. | <a href="#">View File</a> |
| Circulars pertaining to assigning mentors to mentees                | <a href="#">View File</a> |
| mentor/mentee ratio   | <a href="#">View File</a> |

## 2.4 - Teacher Profile and Quality

### 2.4.1 - Number of full time teachers against sanctioned posts during the year

80

| File Description   | Documents                 |
|--|---------------------------|
| Full time teachers and sanctioned posts for year (Data Template) | <a href="#">View File</a> |
| Any additional information                                       | No File Uploaded          |
| List of the faculty members authenticated by the Head of HEI     | No File Uploaded          |

### 2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

#### 2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

14

| File Description  | Documents                 |
|---|---------------------------|
| Any additional information  | No File Uploaded          |
| List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year(Data Template) | <a href="#">View File</a> |

### 2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

#### 2.4.3.1 - Total experience of full-time teachers

404

| File Description   | Documents                 |
|--|---------------------------|
| Any additional information   | <a href="#">View File</a> |
| List of Teachers including their PAN, designation, dept. and experience details(Data Template) | <a href="#">View File</a> |

## 2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The examination related grievances of the students such as late application form filing, non-receipt of admit card of examinations or wrong entries in the admit card, out-of-syllabus questions in examinations and errors in university examination question papers etc. are communicated to University Examination cell with the assistance of the examination cell of the institution. Grievances associated with the internal examination, assessments are handled by the examination section of the institute whereas grievances related to the external assessment are forwarded to the Uttarakhand Technical University, Dehradun. Institute follows the guidelines laid down by Uttarakhand Technical University, Dehradun. Any grievances related to the exam are sent to the university liaison officer who deals with the institute. The grievance is registered in logbook maintained at the university. In case if the student is not satisfied with his/her performance in any exam, he/she can request for photocopy of the answer scripts. The photocopy of answer script shall be mailed to the student by university. After checking the answer paper thoroughly, student can apply for revaluation. The institution ensures that examination related grievances are sorted out in a proper manner by coordinating with the university.

| File Description                | Documents                 |
|---------------------------------|---------------------------|
| Any additional information      | <a href="#">View File</a> |
| Link for additional information | Nil                       |

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time-bound and efficient

In brief, the internal examination related grievance are resolved in the following manner:

1. **Before Examination:** Common grievances of students before the examination are late application form filing, non-receipt of admit card of examinations or wrong entries in the same. In either case, grievances are communicated to University Examination Section and resolved at the earliest. College Exam Cell helps the student for filing the application form.
2. **During Examination:** (i) **Internal Examination:** During internal Examinations, if any student finds discrepancy in question, e.g. given answer options are not correct, data given in question is insufficient or options are repeated, out-of syllabus questions students may report it as invalid question. Committee at University takes cognizance and resolves the grievance. (ii) **Theory Examination:** College Instant reports to University Examination Section, if there are any grievances regarding question papers of any subject. Grievances regarding question paper include questions asked out of syllabus, typing errors, etc.
3. **After Result Declaration:** After result declaration by university, if any student has objection with result, he/she comes to College Exam Coordinator for the same. College Exam Coordinator addresses their issues. If students are not satisfied about their marks, he/she may apply for online revaluation form. In other cases like absentees case, the application of student is forwarded to university for corrective action.

| File Description                | Documents                 |
|---------------------------------|---------------------------|
| Any additional information      | <a href="#">View File</a> |
| Link for additional information | Nil                       |

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

Shivalik College of Engineering (SCE) introduced Outcome Based Education (OBE) in 2016-17. The faculty were trained by conducting several FDPs and Workshops to prepare curriculum in line with the characteristics of OBE.

**Program Outcomes (POs):** It represents the knowledge, skills and attitudes the students should have at the end of a course completion of their respective engineering program.

**Course Outcomes (COs):** It gives the resultant knowledge and skills the student acquires at the end of each course.

**Program Specific Outcomes (PSOs):** PSOs are designed by the concerned Departments with their respective vision, mission and scope of the programme.

Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes are communicated to the stakeholders of the program by the following procedures

- COs, POs and PSOs are approved by the Department Academic Committee (DAC)
- COs, POs and PSOs are available in the Institute website <https://shivalikcollege.edu.in/>
- COs, POs and PSOs are kept in Course Files, Student Manual, Academic Manuals and are also displayed in prominent locations such as Notice boards, Department office, Laboratories, Library etc.
- Course Outcomes (COs) are framed by concerned faculty and reviewed at Department Academic Committee meetings.
- COs are communicated to the students during the introduction class itself.
- POs and PSOs are communicated to employers and Alumni by sending mail and during the Alumni Meeting and IQAC Meetings.

| File Description                                     | Documents                 |
|--|---------------------------|
| Upload any additional information                    | <a href="#">View File</a> |
| Paste link for Additional information                | Nil                       |
| Upload COs for all courses (exemplars from Glossary) | <a href="#">View File</a> |

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

**Calculation of Outcomes:** SCE has evolved its tools and practice of attainment calculation of learning outcomes based on outcome-based education and revised Bloom's Taxonomy during the duration

of last few years based on experience, recommendations of experts and best practices of leading academic institutions. The university has also put forth COs for all the courses and same has been adopted by SCE.

**Dimension of Outcomes:** Course Outcomes, Program Outcomes and Program Specific Outcomes are measured by both direct and indirect methods.

**Outcome based Assessments:** Each internal assessment item is mapped to a particular course outcome and according to revised Bloom's levels. The performance of the student with respect to each assessment item is captured. Then, the combined performance of the class for all assessment items of a specific course item is separately tabulated and compared.

The computed scores of indirect methods are calculated along with scores of direct methods with a predetermined weightage of 20% for indirect and 80% to direct methods.

**Program Outcome / Program Specific Outcome Attainment (%) =**  
 (weight age: 80%) x (Average attainment in direct method) +  
 (weightage: 20%) x (Average attainment in indirect method).

**Analysis of Outcomes:** The COO-PO attainment outcomes are reviewed by IQAC

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Upload any additional information     | <a href="#">View File</a> |
| Paste link for Additional information | Nil                       |

### 2.6.3 - Pass percentage of Students during the year

#### 2.6.3.1 - Total number of final year students who passed the university examination during the year

163

| File Description   | Documents                 |
|--|---------------------------|
| Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template) | <a href="#">View File</a> |
| Upload any additional information  | No File Uploaded          |
| Paste link for the annual report   | Nil                       |

## 2.7 - Student Satisfaction Survey

**2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)**

[https://docs.google.com/forms/d/e/1FAIpQLScBYe0AO4C3rEUkWDHMBdWkHt9lNoH\\_gpv2PfoQxyxOi06w-Q/viewform](https://docs.google.com/forms/d/e/1FAIpQLScBYe0AO4C3rEUkWDHMBdWkHt9lNoH_gpv2PfoQxyxOi06w-Q/viewform)

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Resource Mobilization for Research

**3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)**

**3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)**

49.85

| File Description  | Documents                 |
|---|---------------------------|
| Any additional information  | No File Uploaded          |
| e-copies of the grant award letters for sponsored research projects /endowments | No File Uploaded          |
| List of endowments / projects with details of grants(Data Template)             | <a href="#">View File</a> |

**3.1.2 - Number of departments having Research projects funded by government and non government agencies during the year**

**3.1.2.1 - Number of departments having Research projects funded by government and non-government agencies during the year**

6

| File Description  | Documents                 |
|---|---------------------------|
| List of research projects and funding details (Data Template) | <a href="#">View File</a> |
| Any additional information                                    | No File Uploaded          |
| Supporting document from Funding Agency                       | No File Uploaded          |
| Paste link to funding agency website                          | Nil                       |

### 3.1.3 - Number of Seminars/conferences/workshops conducted by the institution during the year

#### 3.1.3.1 - Total number of Seminars/conferences/workshops conducted by the institution during the year

17

| File Description   | Documents                 |
|--|---------------------------|
| Report of the event  | <a href="#">View File</a> |
| Any additional information                                     | No File Uploaded          |
| List of workshops/seminars during last 5 years (Data Template) | <a href="#">View File</a> |

### 3.2 - Research Publications and Awards

#### 3.2.1 - Number of papers published per teacher in the Journals notified on UGC website during the year

##### 3.2.1.1 - Number of research papers in the Journals notified on UGC website during the year

89

| File Description   | Documents                 |
|--|---------------------------|
| Any additional information   | <a href="#">View File</a> |
| List of research papers by title, author, department, name and year of publication (Data Template) | <a href="#">View File</a> |

#### 3.2.2 - Number of books and chapters in edited volumes/books published and papers



**published in national/ international conference proceedings per teacher during the year****3.2.2.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings during the year**

8

| File Description  | Documents                 |
|---|---------------------------|
| Any additional information  | <a href="#">View File</a> |
| List books and chapters edited volumes/ books published (Data Template) | <a href="#">View File</a> |

**3.3 - Extension Activities**

3.3.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

Shivalik College of Engineering (SCE) has been in the forefront in sensitizing its students pertaining to social issues through its curriculum and extension activities. SCE organises blood donation camps, education awareness programmes, gender equality awareness activities and visits to slums in vicinity to create awareness among the dwellers. Different departments undertake social outreach activities which are meant for helping society and training students to shoulder all responsibilities with ease and impact.

The NSS Cell, NCC and other Departments in collaboration with different agencies, trusts, NGOs, hospitals etc. lead extension activities to address local issues and sensitize students for their holistic development. To address the issues of domestic violence, child marriages, health care, HIV/Aids, street children, runaway children, alcohol addiction and drug addiction, etc. the students and teachers have collaborated through their departments with other agencies to help society and local communities.

Under Unnat Bharat Abhiyan Cell (UBA Cell), SCE had adopted 5 Gram Panchayats,

1. Gram Panchayat Sabhawala, Distt Dehradun
2. Gram Panchayat Mazra, , Distt Dehradun
3. Gram Panchayat Jhajra Range, Distt Dehradun

**4. Gram Panchyat Shishambara, Distt Dehradun****5. Gram Panchayat Sherpur, Distt Dehradun**

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Paste link for additional information | Nil                       |
| Upload any additional information     | <a href="#">View File</a> |

**3.3.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year****3.3.2.1 - Total number of awards and recognition received for extension activities from Government/ government recognized bodies during the year**

5

| File Description  | Documents                 |
|---|---------------------------|
| Any additional information  | No File Uploaded          |
| Number of awards for extension activities in last 5 year(Data Template) | <a href="#">View File</a> |
| e-copy of the award letters   | <a href="#">View File</a> |

**3.3.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., ( including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs ) during the year****3.3.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year**

19

| File Description   | Documents                 |
|--|---------------------------|
| Reports of the event organized   | <a href="#">View File</a> |
| Any additional information   | No File Uploaded          |
| Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template) | <a href="#">View File</a> |

**3.3.4 - Number of students participating in extension activities at 3.3.3. above during the year****3.3.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year**

459

| File Description   | Documents                 |
|--|---------------------------|
| Report of the event  | <a href="#">View File</a> |
| Any additional information   | No File Uploaded          |
| Number of students participating in extension activities with Govt. or NGO etc (Data Template) | <a href="#">View File</a> |

**3.4 - Collaboration****3.4.1 - The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research etc during the year**

8

| File Description  | Documents                 |
|---|---------------------------|
| e-copies of linkage related Document  | No File Uploaded          |
| Details of linkages with institutions/industries for internship (Data Template) | <a href="#">View File</a> |
| Any additional information  | <a href="#">View File</a> |

**3.4.2 - Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year****3.4.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. during the year**

14

| File Description   | Documents                 |
|--|---------------------------|
| e-Copies of the MoUs with institution./ industry/corporate houses  | <a href="#">View File</a> |
| Any additional information   | No File Uploaded          |
| Details of functional MoUs with institutions of national, international importance, other universities etc during the year | <a href="#">View File</a> |

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Shivalik College of Engineering (SCE) has a well-developed campus of around 7.5 acres which is equipped with facilities and learning resources to accomplish academic excellence to attain its vision and strategic objectives. The SCE augments its infrastructure to promote a good teaching learning environment and continuously upgrades and improves its physical infrastructure to meet the needs of changing times.

#### ICT Facilities

The institute has an internet bandwidth of 500 MBPS. Two Audio Video recording and studio has been established to record and create online contents by faculty. The SCE has adequate classrooms & Tutorials rooms with ICT facilities.

To meet the needs of practical and hands on training as per the curriculum 32 laboratories have been established under various departments. The SCE has 45 well equipped ICT enabled classrooms and 7 seminar halls and one conference room with cross ventilation and natural light. An auditorium of capacity of 550 students is under construction. The SCE have been established lab and Centre of Excellence (CoE) in collaboration with industry and academia:-

- Robotics Lab with IIT Bombay
- COE for Cloud Computing with IBM
- COE with DELL (EMC)
- Computer Centre
- Central Workshop & language Lab

- Central Library
- Seminar Halls

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Upload any additional information     | <a href="#">View File</a> |
| Paste link for additional information | Nil                       |

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

To promote interest in sports and cultural events, some special facilities are made available on the campus.

#### Sports & Games:

The supportive facilities on the campus are developed to contribute to the effective ambience for extra-curricular and co-curricular activities. The Sports club work as a team, with adequate supporting staff to assist them in the conduct of various events, throughout the academic year.

#### Yoga Centre/Activities:

Shivalik College of Engineering has established yoga centre for enhancement of health of students, faculty and staff. Participation in physical activity on a regular basis is one of the primary factors in maintaining sound health in modern society. Due to sedentary lifestyle leading many health-related issues, the prevalence of physical inactivity among college students calls for immediate action. Along with aerobics and dance, yoga is one of the most famous physical activity that college girl student would like to prefer as a choice.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | No File Uploaded |
| Paste link for additional information | Nil              |

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

45

**4.1.3.1 - Number of classrooms and seminar halls with ICT facilities**

45

| File Description  | Documents                 |
|---|---------------------------|
| Upload any additional information   | <a href="#">View File</a> |
| Paste link for additional information   | Nil                       |
| Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template) | <a href="#">View File</a> |

**4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)****4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)**

496.8

| File Description  | Documents                 |
|---|---------------------------|
| Upload any additional information   | <a href="#">View File</a> |
| Upload audited utilization statements   | No File Uploaded          |
| Upload Details of budget allocation, excluding salary during the year (Data Template) | <a href="#">View File</a> |

**4.2 - Library as a Learning Resource****4.2.1 - Library is automated using Integrated Library Management System (ILMS)**

Shivalik College of Engineering (SCE) has a fully automated Library since 2015. Cyborg-ERP & e-Campus SDT Consultants (P) Ltd (version 1.0.0.1) is the software used for Circulation, Procurement, OPAC and Project Reports. All the library documents are bar-coded. E-Campus SDT Consultants (P) Ltd (version 1.0.0.1) is very versatile and is extensively used for generating all the reports that are required in day-to-day requirements of the library.

All the holdings such as books and Journals, syllabus, question papers and Project reports of the library could be searched using OPAC. The library has the membership of J-Gate, DELNET and NDLI since 2017. The library has e-library with 15 computers for students and faculty to access the e-resources.

The library has printed journals with 182 titles and 226 bound volumes. In the Project reports section more than 800 reports in physical and digital forms are available which are being used extensively by the students. Libraries maintain software through which the softcopy of the reports could be uploaded, searched and downloaded.

#### Library Facilities & Services

- Books, Journals, e-Journals, Projects & CD Access
- Reference Sections with reference books
- Text Books Section
- News Papers (Hindi and English daily)
- OPAC Facility Digital Library

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Upload any additional information     | <a href="#">View File</a> |
| Paste link for Additional Information | Nil                       |

**4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources**

A. Any 4 or more of the above

| File Description  | Documents                 |
|---|---------------------------|
| Upload any additional information   | <a href="#">View File</a> |
| Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template) | <a href="#">View File</a> |

**4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)**

**4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-**

**journals during the year (INR in Lakhs)**

5.8

| File Description   | Documents                 |
|--|---------------------------|
| Any additional information   | <a href="#">View File</a> |
| Audited statements of accounts   | No File Uploaded          |
| Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template) | <a href="#">View File</a> |

**4.2.4 - Number per day usage of library by teachers and students ( foot falls and login data for online access) (Data for the latest completed academic year)****4.2.4.1 - Number of teachers and students using library per day over last one year**

377

| File Description                                  | Documents                 |
|---|---------------------------|
| Any additional information                        | <a href="#">View File</a> |
| Details of library usage by teachers and students | <a href="#">View File</a> |

**4.3 - IT Infrastructure****4.3.1 - Institution frequently updates its IT facilities including Wi-Fi**

SCE continuously strives to provide state-of-the-art technologies and update its ICT facilities to ensure efficient functioning. Extensive infrastructure has been setup during the last five years:

**IP based Surveillance System**

The infrastructure includes:

- Desktops (Intel i5, Dual Core based with 4 to 32 GB RAM and 250 GB to 1TB HDD)
- Laptops (i7, i5- 6th generation, Core2 Duo based 2.4 GHz with 4 to 8 GB RAM )
- Total number of systems = 630
- 1 Tower server (Xeon 4.2 GHz, 32 GB RAM)
- 250 Mbps leased fiber lines for internet connectivity



The IP Surveillance system was established in 2008 with the following configuration:

- HD & IP camera (1.2 to 8 MP, Hikvision, CP-plus, i-ball) = 220
- 3 NVR & 4DVR with 25TB of storage
- 9-Cisco, 20-D-Link, 7-HP,9-Digisol Switches
- 2 Km of Fiber Optic Cable.

#### ICT and Computing Facilities

Significant investment has been made to upgrade Computer Labs & classrooms to e-classrooms/smart classrooms with the purchase of the following equipment:

- Epson LCD Projectors
- Microsoft licenses under Azure Teaching & Learning tool yearly subscription has been purchased for Microsoft products.
- Hardware Firewall XG310 (SFOS 18.0.4 MR-4) has been installed at the networking infrastructure for the Internet Policy and its control.

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Upload any additional information     | <a href="#">View File</a> |
| Paste link for additional information | Nil                       |

#### 4.3.2 - Number of Computers

630

| File Description                  | Documents                 |
|-----------------------------------|---------------------------|
| Upload any additional information | <a href="#">View File</a> |
| Student – computer ratio          | <a href="#">View File</a> |

#### 4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

| File Description   | Documents                 |
|--|---------------------------|
| Upload any additional Information  | <a href="#">View File</a> |
| Details of available bandwidth of internet connection in the Institution | <a href="#">View File</a> |

#### 4.4 - Maintenance of Campus Infrastructure

##### 4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

##### 4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

308.64

| File Description  | Documents                 |
|---|---------------------------|
| Upload any additional information   | <a href="#">View File</a> |
| Audited statements of accounts.   | No File Uploaded          |
| Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates) | <a href="#">View File</a> |

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

The following specific initiatives are taken by the engineer appointed.

- Expansion of Building resource of the existing campus.
- Renovation of Seminar hall and converting it to lecture recording facility
- Construction of Faculty accommodation and guest houses
- Regular monitoring is done for the maintenance of classrooms, laboratories, libraries, lawns, gardens, play grounds, cafeteria etc.
- The registrar office of SCE is responsible for overall maintenance of infrastructure facilities, services and equipment. Such as Classrooms laboratories, the common places such as Conference halls,
- auditorium(Under Construction) , libraries, Play grounds

etc

- Each department is responsible for the maintenance and upkeep of classrooms, conference halls, labs, equipment etc. through lab in-charges in coordination with administration department and maintenance team including civil engineers, vendors and suppliers.
- Similarly the living area like hostels, dining halls etc. are maintained by dedicated workforce. Repair is done under the supervision of respective supervisors of registrar office with the help of civil engineers and other work force.
- Equipment like Reverse Osmosis (RO) System , Generator , EPBX -System etc are maintained under AMCs.

The College has a System Administrator to oversee the maintenance of the Computer Systems. Any repair beyond the scope of the system administrator, external agencies are called for.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Upload any additional information     | No File Uploaded |
| Paste link for additional information | Nil              |

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

##### 5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

12

| File Description   | Documents                 |
|--|---------------------------|
| Upload self attested letter with the list of students sanctioned scholarship   | <a href="#">View File</a> |
| Upload any additional information  | No File Uploaded          |
| Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template) | <a href="#">View File</a> |

### 5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

#### 5.1.2.1 - Total number of students benefitted by scholarships, free ships, etc provided by the institution / non- government agencies during the year

263

| File Description   | Documents                 |
|--|---------------------------|
| Upload any additional information  | <a href="#">View File</a> |
| Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template) | <a href="#">View File</a> |

### 5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

| File Description  | Documents        |
|---|------------------|
| Link to institutional website   | Nil              |
| Any additional information  | No File Uploaded |
| Details of capability building and skills enhancement initiatives (Data Template) | No File Uploaded |

| <b>5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year</b>  |                            |
|---|----------------------------|
| 145   |                            |
| <b>5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year</b>  |                            |
| 145   |                            |
| File Description  | Documents                  |
| Any additional information  | <a href="#">View File</a>  |
| Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)  | <a href="#">View File</a>  |
| <b>5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees</b> | <b>A. All of the above</b> |
| File Description  | Documents                  |
| Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee  | <a href="#">View File</a>  |
| Upload any additional information   | <b>No File Uploaded</b>    |
| Details of student grievances including sexual harassment and ragging cases   | <a href="#">View File</a>  |
| <b>5.2 - Student Progression</b>  |                            |
| <b>5.2.1 - Number of placement of outgoing students during the year</b>   |                            |
| <b>5.2.1.1 - Number of outgoing students placed during the year</b>   |                            |

131

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Self-attested list of students placed | <a href="#">View File</a> |
| Upload any additional information     | No File Uploaded          |

**5.2.2 - Number of students progressing to higher education during the year****5.2.2.1 - Number of outgoing student progression to higher education**

13

| File Description                                   | Documents                 |
|--|---------------------------|
| Upload supporting data for student/alumni          | No File Uploaded          |
| Any additional information                         | No File Uploaded          |
| Details of student progression to higher education | <a href="#">View File</a> |

**5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)****5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year**

12

| File Description                    | Documents                 |
|-------------------------------------|---------------------------|
| Upload supporting data for the same | <a href="#">View File</a> |
| Any additional information          | No File Uploaded          |

**5.3 - Student Participation and Activities****5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the year****5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.**

3

| File Description   | Documents                 |
|--|---------------------------|
| e-copies of award letters and certificates   | <a href="#">View File</a> |
| Any additional information   | No File Uploaded          |
| Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template) | <a href="#">View File</a> |

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms )

The Institution promotes and encourages such student representative bodies keeping in view an objective which is for active contribution and participation of students towards for not only the development of the Institution but also along with this the students get opportunity for personal development such as organizational and leadership skills, analytical thinking, problem solving capability, social responsibility, decision making etc. during various levels of interaction with faculty members, administration and committees.

The goal of these student clubs, committees, chapters and units is to assist the students to rise above for representing and sharing their progressive and creative thoughts.

All the activities of the student clubs, committees, chapters and units are ably supported by faculty members who contribute in the capacity of Club Coordinators and Co-Coordinators.

The various clubs, committees, chapters and units functioning in the Institution are as under:

- Class Representative Group
- Grievance Committee
- Anti Ragging Committee
- Women Grievance and Anti Sexual harassment committee
- Hostel/Mess Committee
- IEEE Students Chapter
- ISHRAE Students Chapter

- Technical Clubs of all programs
- Cultural Club
- Litcore ( Literature Club)
- Arts and Craft Club
- Health and Fitness Club
- Sports Club
- Social Club
- Photography Club
- NSS
- NCC Unit
- IQAC

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Paste link for additional information | Nil              |
| Upload any additional information     | No File Uploaded |

### 5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

#### 5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

15

| File Description  | Documents                 |
|---|---------------------------|
| Report of the event   | No File Uploaded          |
| Upload any additional information   | No File Uploaded          |
| Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions) (Data Template) | <a href="#">View File</a> |

### 5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Shivalik College of Engineering(SCE) has registered an Alumni



Association Registration No: UK0600892022009373 under the Societies Registration Act. 1960 on 19th September 2022 at Dehradun, Uttarakhand. Prior to the registration of the Alumni Association, the Institute established an Alumni cell in the year 2012.

The Alumni Association Contribution through various means:-

- **Alumni Interaction:** Alumni of SCE give input to aspiring Engineering graduates. They are invited as resource persons at various events, such as guest lectures, and panel discussions. They provide inputs and share their experiences regarding skills, recent technologies & trends in the corporate world, application of knowledge.
- **Placement & Career Guidance Assistance:** Alumni are working in organizations at various capacities. They keep the faculty and placement officer abreast of available job opportunities. They assist and guide the students to crack the interviews.
- **Alumni Meet:** We at SCE has a tradition of inviting alumni for Annual Alumni Meet "Convergence" in the month of February. In this meet the alumni get chance to reconnect with the Alma mater and old friends. This is the best platform for networking and sharing new trends and current happenings in the corporate world. These inputs are helpful to the academicians for moulding the aspiring students.

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Paste link for additional information | Nil                       |
| Upload any additional information     | <a href="#">View File</a> |

|   |                    |
|---|--------------------|
| <b>5.4.2 - Alumni contribution during the year (INR in Lakhs)</b> | <b>A. ? 5Lakhs</b> |
|---|--------------------|

| File Description                  | Documents        |
|-----------------------------------|------------------|
| Upload any additional information | No File Uploaded |

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

#### Vision of Institute

To be a premier technical institution that provides experiential learning and multi-disciplinary research to develop socially responsible and competent professionals.

#### Mission of Institute

Create an ambience that fosters a passion for learning and collaborative research and effectively disseminate knowledge between highly competent faculty and student community. Foster professionals, who can add value to organizations, engage in higher studies and pursue innovative entrepreneurial activities. Provide best in class infrastructure to facilitate experiential learning in cutting edge technologies. Develop leaders who exhibit ethical behaviour in professional and societal activities.

The leadership and guidance provided by the apex body, the Board of Governors has ensured a very effective system development and improvement. Developmental needs are identified, discussed and reviewed periodically to remove the impediments involved in the functioning of the College and furthering its progress.

The governing body supports the college administration with decisions, approvals and developmental matters. The Director of the institute is the guiding beacon and strategic direction and accepts responsibility for risk.

Department of Quality Assurance / IQAC acts as a central body for continual improvement of institutional quality and suggest different measures to achieve vision of the college.

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Paste link for additional information | Nil                       |
| Upload any additional information     | <a href="#">View File</a> |

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

The hierarchy of the institution facilitates effective

governance. It promotes decentralization of decision making while ensuring effective leadership and transparency at all levels with detailed process documentation and communication. It facilitates feedback from all stake holders and promotes improvement at all levels.

- Institution has defined roles and responsibilities for all levels of hierarchy. Policies for different stakeholders are put in place under establishment, Academic and student manual.
- Institution has defined roles and responsibilities for all levels of hierarchy. Policies for different stakeholders are put in place under establishment, Academic and student manual. The Secretary of the society in consultation of members of society appoints the Director of the college as per the norms of the regulatory bodies.
- The Director is guided and supported by Board of Management.
- The Registrar, Dean Student Welfare, Dean Research Promotion & Monitoring, Dean Quality Assurance Exam controller, Training & Placement head, Accounts, Proctor and Admissions directly reports to the Director.
- Respective Head of department, Head of different committees/Cells/clubs report to respective Deans and Director.
- All administrative functions and roles such as hostel, transport, maintenance, human resource, administration, information technology, cafeteria and mess, stores and Purchase report to the registrar.

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Paste link for additional information | Nil                       |
| Upload any additional information     | <a href="#">View File</a> |

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The college does have a perspective plan for development. The perspective plan is an important component of the institution's strategy development and deployment process. The leadership provides clear vision and mission to the institution. The

aspects considered in development of policy and strategy are

- Teaching and learning
- ICT based learning
- Outcome based education and its implementation
- Focusing on self learning
- Continual improvement of teaching techniques
- Research and development
- Proactive approach to sensitize faculty on research promotion
- Incentives to promote research
- Increase in the number of sponsored research projects
- Upgrading infrastructural facilities for R&D growth
- Community engagement

Institute's Strategic Plan -

**OBJECTIVE 1**

To be recognized for quality education and extensive integration across engineering disciplines through effective teaching & learning process.

**OBJECTIVE 2**

Students & Faculty development & participation by providing a world class campus based educational experience.

**OBJECTIVE 3**

To benchmark and standardize various processes and policies to get accreditation from statutory bodies.

**OBJECTIVE 4**

Research & Development : To provide institutional research funding to the faculty to do initial quality research and prepare quality research proposals for possible funding.

| File Description                                       | Documents                 |
|--|---------------------------|
| Strategic Plan and deployment documents on the website | <a href="#">View File</a> |
| Paste link for additional information                  | Nil                       |
| Upload any additional information                      | <a href="#">View File</a> |

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The organizational structure of the College for decision making processes and their effectiveness is enunciated below.

#### Board Of Governors

- Highest decision making body of the institution
- Constituted as per guidelines of the regulating bodies

#### Academic Advisor Committee:

- Ratifies the decisions of Board of Studies
- Make regulations for sports and extra-curricular activities.
- Recommends to the Governing Body proposals for institution of new programs of study.

#### Director

- Academic and Administrative head of the Institution
- Has reasonable autonomy in financial decisions, in consultation with the management.

#### Dean Academics

- Responsible for creating and maintaining of academic environment in the college.

#### Dean of Students Welfare

- Responsible for creating and maintaining supportive environment for holistic development of student

#### Controller of Examinations:

- Looks after examinations related tasks assisted by Assistant Controllers of examinations

Dean Training & Development and Placement Officer:

- Looks after tasks related to Training and Placement activities

Head of Departments:

- Initiate appropriate measures for strengthening teaching-learning processes
- Adequate freedom to take academic / administrative decisions

Statutory and non-statutory committees look after the academic and administrative procedures. These committees conduct meetings and the minutes are recorded.

All the committees are functioning in order to facilitate the successful implementation of the autonomy

| File Description                              | Documents        |
|---|------------------|
| Paste link for additional information         | Nil              |
| Link to Organogram of the Institution webpage | Nil              |
| Upload any additional information             | No File Uploaded |

**6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination**

A. All of the above

| File Description  | Documents                 |
|---|---------------------------|
| ERP (Enterprise Resource Planning) Document   | <a href="#">View File</a> |
| Screen shots of user interfaces   | <a href="#">View File</a> |
| Any additional information  | <a href="#">View File</a> |
| Details of implementation of e-governance in areas of operation, Administration etc (Data Template) | <a href="#">View File</a> |

### 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

At Shivalik Collge of Engineering(SCE), the staff welfare schemes as follows:

- Contributory provident fund-EPF.
- Contributory Insurance Scheme-ESI.
- Medical leave with full pay.
- 10 days Academic leave.
- 10 casual leaves for teaching staff.
- 15 Earned leaves.
- Six Month Maternity leave for female staff.
- Extra Ordinary leave/Special leaves.
- Facility of advance amount for teaching and non-teaching staff.
- Health insurance Policy.
- Residence facility in campus for teaching and administrative staff.
- Free Transport facility for teaching and non-teaching staff.
- Loan facility without interest for teaching and non-teaching staff.
- Research Incentive Policy.
- 24x7 Free Wi-Fi facility for teaching and non-teaching staff.
- Access to Journals, periodicals and Newspapers.
- Dedicated staff rooms with computers facility.
- Fee concession Policy for Employee wards.
- Long Service Recognition with 5000 rupees award.
- Study Leave fro teaching staff.
- Uniform for non teaching and supporting staffs.
- Access to Gymnasium and sports facilities.

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Paste link for additional information | Nil                       |
| Upload any additional information     | <a href="#">View File</a> |

### 6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

#### 6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

30

| File Description  | Documents                 |
|---|---------------------------|
| Upload any additional information   | <a href="#">View File</a> |
| Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template) | <a href="#">View File</a> |

### 6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

#### 6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

8



| File Description   | Documents                 |
|--|---------------------------|
| Reports of the Human Resource Development Centres (UGCASC or other relevant centres).  | No File Uploaded          |
| Reports of Academic Staff College or similar centers   | No File Uploaded          |
| Upload any additional information  | No File Uploaded          |
| Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template) | <a href="#">View File</a> |

### 6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

#### 6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

42

| File Description  | Documents                 |
|---|---------------------------|
| IQAC report summary   | <a href="#">View File</a> |
| Reports of the Human Resource Development Centres (UGCASC or other relevant centers)              | <a href="#">View File</a> |
| Upload any additional information   | <a href="#">View File</a> |
| Details of teachers attending professional development programmes during the year (Data Template) | <a href="#">View File</a> |

### 6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

Performance appraisal system of the Teaching staff includes the following mechanisms:

The Self-Appraisal Report (SAR) of all teaching staff is taken on annual basis using structured questionnaire. The questionnaire is of 300 marks which is sub divided into 5 parts (A to E)

Part A : Teaching learning & Evaluation related Activities (100 Marks)

Part B : Research Publication Projects and Consultancy (100 marks)

Part C : Extension activities (80 Marks)

Part D : Leave Records (10 Marks)

Part E : Professional Ethics & Competence (10Marks)

Based on the last year's performance Human resource department under the guidance of Director if college prepaid appraisals. Director of the college takes personal interest in guiding the teachers for further improvement.

Performance Appraisal System non-teaching staff

The Self-Appraisal Report of non-teaching staff is taken on annual basis using structured questionnaire. Based on the performance and the feedback, the Registrar takes personal interest in guiding the non- teaching Staff. The Manager and the senior members of the non-teaching Staff groom the new recruits to help them to enhance their performance. The non-teaching Staff members have assigned to work in different capacities on rotation basis.

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Paste link for additional information | Nil                       |
| Upload any additional information     | <a href="#">View File</a> |

#### 6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Shivalik College of takes every possible effort towards resource

mobilization and generating funds. The college is self-financed, not-for-profit institution, catering to the needs of various cross sections of the society, to metamorphize the students to become responsible citizen of our country both professionally and otherwise. A well defined mechanism is in force for financial audit to have discipline and transparency in financial management. The accounts of the institution are subject to internal and external audit. Finance and Fees Committees are in place since 2014, to monitor the financial system. The College has a conscious policy of keeping the student fee affordable. The College is now constantly searching for opportunities to receive grants and financial assistance from various Government Agencies, apart from Fees so that more emphasis can be done on Research aspects.

A well-defined mechanism is in force for financial audit to have discipline and transparency in financial management. The accounts of the institution are subject to internal and external audit.

The Finance Committee conducts internal audit and the Chartered Accountant performs external audits.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Paste link for additional information | Nil              |
| Upload any additional information     | No File Uploaded |

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

##### **6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)**

0

| File Description  | Documents        |
|---|------------------|
| Annual statements of accounts   | No File Uploaded |
| Any additional information  | No File Uploaded |
| Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template) | No File Uploaded |

#### 6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The Shivalik College of Engineering of takes every possible effort towards resource mobilization and generating funds. The college is self-financed, not-for-profit institution, catering to the needs of various cross sections of the society, to metamorphize the students to become responsible citizen of our country both professionally and otherwise. A well-defined mechanism is in force for financial audit to have discipline and transparency in financial management. The accounts of the institution are subject to internal and external audit. Finance and Fees Committees are in place since 2014, to monitor the financial system. The College has a conscious policy of keeping the student fee affordable. The College is now constantly searching for opportunities to receive grants and financial assistance from various Government Agencies, apart from Fees so that more emphasis can be done on Research aspects.

The Shivalik College of Engineering of takes every possible effort towards resource mobilization and generating funds. The college is self-financed, not-for-profit institution, catering to the needs of various cross sections of the society, to metamorphize the students to become responsible citizen of our country both professionally and otherwise. A well-defined mechanism is in force for financial audit to have discipline and transparency.

| File Description                      | Documents        |
|---------------------------------------|------------------|
| Paste link for additional information | Nil              |
| Upload any additional information     | No File Uploaded |

#### 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Internal Quality Assurance cell (IQAC) was established at Shivalik College of Engineering in the year of 2018 and its first meeting was held on 14th January 2019 to chisel out quality graduates from institution. This cell has wide representation from all functional areas of institution and meets at least twice every semester to review quality initiatives being carried out and propose new initiatives. The cell since its inception has conducted multiple events such as seminars, workshops, expert lectures etc. year on year. As a part of quality initiative, all areas of the institution were reviewed and recommendations for improving teaching and learning were provided. The IQAC enhanced institution's ability to acquire and develop competencies for teaching learning, research resulting in improved learner experience and enhance research opportunities. IQAC decided to follow ISO 9001:2015 standards in the institution for implementing quality improvements. Under the directions of IQAC, a list of initiatives was undertaken year on year to support various educational, administrative and operation needs of the institution.

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Paste link for additional information | Nil                       |
| Upload any additional information     | <a href="#">View File</a> |

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

College reviews its teaching-learning process, structures and methodologies of operations and learning outcomes at periodic intervals through its various committees like the Academic Advisory Committee (AAC), IQAC, Training and Placement Cell and Feedback committee.

The IQAC reviews results and plans activities for the academic growth of the College.

Student feedback taken at different levels such as CR Meeting with Dean Student welfare, Mentor Mentee meetings, Counseling sessions which is utilized to improve teaching learning process

Various quality initiatives for improving the teaching-learning process taken by the Institute have

- Introduction of Come Based Education system
- Organization of seminars, workshops, faculty enrichment programs and training for faculty as well as students
- Value-added courses for students initiated
- Use of ICT in teaching and learning encouraged.
- E-resources for various courses are regularly shared with students.
- Remedial Classes for week students
- Mentor-Mentee System
- Feedback from alumni and parents and others stake holders
- Collaborative Research with other institute
- Modern teaching mythologies such as Flip class, Role Play, Group discussions, quizzes are used for better understanding of students.

| File Description                      | Documents                 |
|---------------------------------------|---------------------------|
| Paste link for additional information | Nil                       |
| Upload any additional information     | <a href="#">View File</a> |

**6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

A. All of the above

| File Description   | Documents   |
|--|---|
| Paste web link of Annual reports of Institution                                    | <a href="https://shivalikcollege.edu.in/quality-cell/iqac-shivalik-college-of-engineering/annual-report-sce/">https://shivalikcollege.edu.in/quality-cell/iqac-shivalik-college-of-engineering/annual-report-sce/</a> |
| Upload e-copies of the accreditations and certifications                           | <a href="#">View File</a>   |
| Upload any additional information  | <a href="#">View File</a>   |
| Upload details of Quality assurance initiatives of the institution (Data Template) | <a href="#">View File</a>   |

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Measures initiated by the institution for the promotion of gender equity during the last five years:

- Shivalik College of Enginneing (SCE) ensures women empowerment through gender equality. The Institute makes consistent efforts to promote women's education.
- The Institute has taken several measures to enhance safety & security on campuses by constituting Internal Complaints Committee (ICC), installing CCTV cameras & by providing 24 hours\*7 days security. Women security guards are also available on the premises of the Institute to ensure the safety of women.
- SCE has implemented a common uniform for all of its students.
- All types of projects and lab activities are offered to all students irrespective of boys and girls. The Institute has two women counselors who provide regular counseling sessions to both girl students and female faculty members on a regular basis. The Institute have organized more than 9training programs, seminars, workshops etc. on gender equality and sensitization.
- The ICC of SCE celebrates International Women's Day on 8th March, every year. Distinguished women from various fields discussed their challenges and success stories.
- A scholarship specifically for Girls Child with the name

of UDAN introduced to promote the girls child education.

| File Description   | Documents |
|--|-----------|
| Annual gender sensitization action plan  | Nil       |
| Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information | Nil       |

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment**

A. 4 or All of the above

| File Description               | Documents                 |
|--------------------------------|---------------------------|
| Geo tagged Photographs         | <a href="#">View File</a> |
| Any other relevant information | No File Uploaded          |

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

#### Solid waste management

- Professional contractors from Shishambada Processing Plant collect the waste.
- The used papers and notebooks are collected every semester and recycled.
- The books are donated to the students of neighboring schools and are also made available to the in house students in the form of record books.
- Chemical and hazardous waste from laboratories are disposed properly. This waste is collected and disposed through a certified third party.
- Usage of single use plastic cups, plates and cutlery are banned in the campus as a green initiative.

#### Liquid waste management



- 2 STPs installed
- Eco-friendly floor cleaners are used and the waste water is checked on a monthly basis. Disposal is done after treatment if necessary.

#### E-waste management

- Bins are provided across the campus to collect the waste across all departments. The collected material is disposed for recycling through authorized vendors where ever possible.
- The lighting is through LED bulbs.
- A 500 KVA solar power plant is installed on the roof top of the building and is connected to grid

| File Description  | Documents                 |
|---|---------------------------|
| Relevant documents like agreements/MoUs with Government and other approved agencies | No File Uploaded          |
| Geo tagged photographs of the facilities  | Nil                       |
| Any other relevant information  | <a href="#">View File</a> |

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**

A. Any 4 or all of the above

| File Description                                  | Documents        |
|---|------------------|
| Geo tagged photographs / videos of the facilities | No File Uploaded |
| Any other relevant information                    | No File Uploaded |

#### 7.1.5 - Green campus initiatives include

**7.1.5.1 - The institutional initiatives for greening the campus are as follows:**

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered

A. Any 4 or All of the above

|   |                                     |
|---|-------------------------------------|
| <b>vehicles</b><br><b>3. Pedestrian Friendly pathways</b><br><b>4. Ban on use of Plastic</b><br><b>5. landscaping with trees and plants</b>   |                                     |
| File Description  | Documents                           |
| Geo tagged photos / videos of the facilities  | <a href="#">View File</a>           |
| Any other relevant documents  | No File Uploaded                    |
| <b>7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution</b>   |                                     |
| <b>7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities</b>  | <b>A. Any 4 or all of the above</b> |
| File Description  | Documents                           |
| Reports on environment and energy audits submitted by the auditing agency   | No File Uploaded                    |
| Certification by the auditing agency  | <a href="#">View File</a>           |
| Certificates of the awards received   | No File Uploaded                    |
| Any other relevant information  | No File Uploaded                    |
| <b>7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading</b> | <b>A. Any 4 or all of the above</b> |

| File Description   | Documents                 |
|--|---------------------------|
| Geo tagged photographs / videos of the facilities                        | <a href="#">View File</a> |
| Policy documents and information brochures on the support to be provided | No File Uploaded          |
| Details of the Software procured for providing the assistance            | No File Uploaded          |
| Any other relevant information   | No File Uploaded          |

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

The institute conducts the institutional efforts/initiatives in providing an inclusive environment for the students. The purpose of conducting such events in the institute is to inculcate the sense of peace, equality and harmony among students. The institute organizes various activities/events to increase consciousness about tolerance and harmony towards cultural, regional, linguistic, communal socio-economic and other diversities.

The institute organizes blood donation camp every year. The blood donation camp creates awareness and generates sense of responsibility towards society among students and staff. By these efforts we can save someone's life. Institute's staff and students participated in this event with great enthusiasm. The National Service Scheme unit of the institute carried out activity of tree plantation of saplings near the college campus area. The students were distributed saplings and were instructed to plant saplings. The institute conducted a voting awareness campaign in which a rally with theme "Cast Your Vote" was organized in which faculty and student participated with great joy and enthusiasm.

Shivalik college of Engineering commemorated National Cleanliness Fortnight Drive by conducting a 'Cleanliness Campaign' under the aegis of its National Service Scheme (NSS) Unit on 02 October 2022.

| File Description   | Documents                 |
|--|---------------------------|
| Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution) | No File Uploaded          |
| Any other relevant information   | <a href="#">View File</a> |

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Institution organizes many activities regarding responsibilities and duties with enthusiasm. Our students and employees are moving towards better India by sensing their rights, duties and responsibilities. The institution practices pluralist approach towards all religion functions and encourages the students and faculty to showcase the same. Every year our institute organizes such events so that students and Staff get to know the importance of national integrity in the country in general and their role in it in particular.

1. Seminar on ethical values
2. Global hand washing day
3. Anti-Drug campaign
4. Aids Awareness in adopted villages
5. Drug Safety and Awareness Program with Uttarakhand Police
6. Debate on how to demolished corruption: NSS Unit of Shivalik College of Engineering (SCE) organized an debate on how to demolished corruption, in which NSS students as well as other student of SCE has participated.
7. Debate on Migration a threat to Uttarakhand
8. Blood donation camp
9. Traffic Awareness Program
10. Cast your vote: Institute organized a fun and interactive 'Voting Awareness Campaign' Although millions of people vote, every vote counts to select the right candidate for the country.

| File Description   | Documents                 |
|--|---------------------------|
| Details of activities that inculcate values; necessary to render students in to responsible citizens | <a href="#">View File</a> |
| Any other relevant information   | <a href="#">View File</a> |

|  |                                   |
|--|-----------------------------------|
| <p><b>7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized</b></p> | <p><b>A. All of the above</b></p> |
|--|-----------------------------------|

| File Description   | Documents                 |
|--|---------------------------|
| Code of ethics policy document   | <a href="#">View File</a> |
| Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims | <b>No File Uploaded</b>   |
| Any other relevant information   | <b>No File Uploaded</b>   |

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

**Institution Organizes National Festivals and Birth and Death Anniversaries of great Indian personalities with enthusiasm. Our students are on a mission towards better India by breaking the boundaries of religion and caste. Thoughts of great Indian personalities sowed into the young minds through the exhibitions and programs conducted on these days.**

**26th January Republic Day- Republic Day is celebrated to**

commemorate the adoption of constitution.

15th August Independence day- It is a grand event marked with the flag hosting by the Chief Guest and well-practiced march-past by many teams of Security Personals.

5th September (Dr. Sarvpalli Radha Krishnan Birth Anniversary)  
On 5th September, we celebrate Dr. Radha Krishnan's birthday as Teacher's Day with great fervor. The students organize a programme for the teachers.

2nd October Mahatma Gandhi Birth Anniversary.- A standout amongst the most mainstream events in India and one of the three national occasions, Gandhi Jayanti is praised in our Institute on 2nd October of consistently to stamp the birth commemoration of Mahatma Gandhi.

31st October Ekata Divas (Birth Anniversary of Sardar Patel)- Shivalik College of Engineering (SCE) organized Celebration of Rashtriya Ekta Diwas "Run For Unity" .

15th September Engineers day (Birth Anniversary of Sir Visvesvaraya)

| File Description  | Documents        |
|---|------------------|
| Annual report of the celebrations and commemorative events for the last (During the year) | No File Uploaded |
| Geo tagged photographs of some of the events  | No File Uploaded |
| Any other relevant information  | No File Uploaded |

## 7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

### BEST PRACTICE - I

**Title of the Practice: Engineering solutions for societal problems by disseminating awareness, understanding and application of Intellectual Proper Rights(IPR) among the students**

**Objectives of the Practice:**

- To create the culture of creative thinking and Innovation in the institute.
- To beneficiate society by providing Engineering solutions to various existing problems with the help of right process, tool and techniques.
- To file Design/ Prototype patents from various Projects
- To make students and faculty members aware of IPR
- To increase the Innovation Index of Institute that leads to enhance the Global Innovation Index of Country.

**BEST PRACTICE -II**

**Title of the practice:** Introduces Value Added Courses (VACs) to bridge Industry Academia Gaps.

**Objectives of the Practice:**

To provide students with an understanding of the expectations of the industry. To improve the employability skills of engineering students To bridge the skill gaps and make students industry ready. To provide an opportunity for students to develop interdisciplinary skills.

| File Description                             | Documents                 |
|--|---------------------------|
| Best practices in the Institutional web site | <a href="#">View File</a> |
| Any other relevant information               | No File Uploaded          |

**7.3 - Institutional Distinctiveness**

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The institution incubates & promotes creativity, innovation through entrepreneurship. The students encouraged and given opportunity to get involved in research efforts. Various value added courses offered by each department which is intended to provide advanced information about latest technology. Beside this, institute takes conscious efforts to take initiatives for energy conservation and renewable energy usage in the college campus. Solar panels are used in the hostel and the college campus. The institute has lush green eco-friendly campus spread over 18 acres. The institution has 500 KW Solar Power

Plant installed on the roof top of the building and is connected to the grid. The 500KW solar power generation MoU executed between the institute and Uttarakhand Power Corporation Ltd. The solar powerplant is installed as a green and renewable energy practice. The solar water heaters also installed on the roof top of the girl and boys hostels to provide the warm water. The solar waterheater helps to reduce the use of commercial energy sources and take the institute to the green and renewable energypractices. The institute also includes successive use of the LED and LCD bulbs around the campus. The classrooms, labs,office areas, hostels and the walkways are lined with trees and LED bulbs.

| File Description                             | Documents        |
|--|------------------|
| Appropriate web in the Institutional website | No File Uploaded |
| Any other relevant information               | No File Uploaded |

### 7.3.2 - Plan of action for the next academic year

#### Plan of action for the next academic year -

- To continue to provide congenial learning environment for holistic development of Students, Faculty and Supporting Staff
- To inculcate online learning through add on courses.
- To continue to provide holistic value based education
- To inculcate entrepreneurial abilities in students to face the challenges of corporate world.
- To stimulate the academic environment for promotion of quality in teaching-learning process
- To undertake quality-related research studies, consultancy and training programmes
- To conduct various activities that will help students and staff to develop these skills
- To increase Extension activities ? To develop more formal linkages through MoUs
- To facilitate continuous upgradation of the college ? To organise more workshops, seminars and conferences
- To create awareness and initiate measures for protecting and promoting environment
- To promote Research by students and Faculty
- To monitor Quality Assurance and Quality Enhancement



activities

- To support various Staff Welfare measures.
- To facilitate Faculty and Student Exchange Programmes with Other Academic Institutions and Linkages
- To foster and strengthen relationship through Faculty and Student Exchange Programmes
- To devise techniques to improve Teaching Learning & Evaluation process
- To continue to provide formal education to needy and deserving students
- To arrange career guidance programmes
- To emerge as an exemplar to other colleges