



## YEARLY STATUS REPORT - 2021-2022

### Part A

#### Data of the Institution

##### 1. Name of the Institution

Dayananda Sagar College of Engineering

• Name of the Head of the institution Dr. B G Prasad

• Designation Principal

• Does the institution function from its own campus? Yes

• Phone No. of the Principal 08042161753

• Alternate phone No. 08042161721

• Mobile No. (Principal) 9880064699

• Registered e-mail ID (Principal) ppl-dsce@dayanandasagar.edu

• Address Shavige Malleswara Hills

• City/Town Kumaraswamy Layout, Benaguluru

• State/UT Karnataka

• Pin Code 560111

##### 2. Institutional status

• Autonomous Status (Provide the date of conferment of Autonomy) 12/02/2015

• Type of Institution Co-education

• Location Urban

- Financial Status **Self-financing**
- Name of the IQAC Co-ordinator/Director **Dr. Ravishankar R**
- Phone No. **08042161740**
- Mobile No: **09448327476**
- IQAC e-mail ID **hod-chml@dayanandasagar.edu**

**3. Website address (Web link of the AQAR (Previous Academic Year))** <https://www.dsce.edu.in/aqar-19-20>

**4. Was the Academic Calendar prepared for that year?** **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: <https://www.dsce.edu.in/calendar-of-events>

### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>A+</b>	<b>3.42</b>	<b>2016</b>	<b>11/07/2016</b>	<b>10/07/2021</b>
<b>Cycle 2</b>	<b>A</b>	<b>3.20</b>	<b>2022</b>	<b>28/06/2022</b>	<b>27/06/2027</b>

**6. Date of Establishment of IQAC** **21/12/2016**

**7. Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?**

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
DSI	SIRO	Nil	21/09/2021	Nil
DSCE	ISO 14001:2015	Nil	15/03/2021	Nil
DSCE	ISO 22000:2018	Nil	15/03/2021	Nil
DSCE	Green Campus Management Audit	Nil	18/03/2021	Nil
DSCE	ISO 9001:2015	Nil	29/03/2021	Nil

### 8. Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI [View File](#)

### 9. No. of IQAC meetings held during the year 3

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

- If No, please upload the minutes of the meeting(s) and Action Taken Report **No File Uploaded**

### 10. Did IQAC receive funding from any 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. NEP implementation

Applied to NBA

## NIRF

Recognition to college toppers

introduction of new BE programs

Recognition of best researcher

project open house

**12. Plan of action chalked out by IQAC at 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
Awareness on NEP	As per VTU guidelines NEP 2020 was introduced to the first year students. More emphasis was given to hands on training and certification courses. Project based learning is introduced in the first year. Four certification courses introduced in the first year.
NIRF	NIRF data submitted.
Recognition to college toppers	Three UG across the college toppers were identified and given a Gold, Bronze, Silver Medals along with certificates and cash prize of Rs.25,000, Rs. 20,000, Rs. 15,000 to be given during the Graduation ceremony.
Three new BE programmes are planned.	approvals are obtained from the competent authorities to start three programmes namely 1. Computer Science and Business Systems, 2. Computer Science and Engineering (Cyber Security), 3. Computer Science and Engineering ( Data Science)
Recognition of best researcher	To encourage the research culture, as a policy, it was decided to recognize best Researcher every year based on various factors like, Patents,

	publication, funding, Citation index, impact factors etc. An internally committee will short list the application and finally an external team will select the best among the short listed candidates.
Project open house	Over 350 projects are displayed for the benefit of the junior students and these projects are evaluated for four categories by external experts departmentwise.

**13. Was the AQAR placed before the statutory body?** Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
NBA	14/05/2022

**14. Was the institutional data submitted to AISHE ?** Yes

- Year

**Part A****Data of the Institution**

<b>1.Name of the Institution</b>	Dayananda Sagar College of Engineering
• Name of the Head of the institution	Dr. B G Prasad
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	08042161753
• Alternate phone No.	08042161721
• Mobile No. (Principal)	9880064699
• Registered e-mail ID (Principal)	ppl-dsce@dayanandasagar.edu
• Address	Shavige Malleswara Hills
• City/Town	Kumaraswamy Layout, Benaguluru
• State/UT	Karnataka
• Pin Code	560111
<b>2.Institutional status</b>	
• Autonomous Status (Provide the date of conferment of Autonomy)	12/02/2015
• Type of Institution	Co-education
• Location	Urban
• Financial Status	Self-financing
• Name of the IQAC Co-ordinator/Director	Dr. Ravishankar R

• Phone No.	08042161740				
• Mobile No:	09448327476				
• IQAC e-mail ID	hod-chml@dayanandasagar.edu				
<b>3.Website address (Web link of the AQAR (Previous Academic Year)</b>	<a href="https://www.dsce.edu.in/aqar-19-20">https://www.dsce.edu.in/aqar-19-20</a>				
<b>4.Was the Academic Calendar prepared for that year?</b>	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://www.dsce.edu.in/calendar-of-events">https://www.dsce.edu.in/calendar-of-events</a>				
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A+	3.42	2016	11/07/2016	10/07/2021
Cycle 2	A	3.20	2022	28/06/2022	27/06/2027
<b>6.Date of Establishment of IQAC</b>			21/12/2016		
<b>7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?</b>					
Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
DSI	SIRO	Nil	21/09/2021	Nil	
DSCE	ISO 14001:2015	Nil	15/03/2021	Nil	
DSCE	ISO 22000:2018	Nil	15/03/2021	Nil	
DSCE	Green Campus Managment Audit	Nil	18/03/2021	Nil	
DSCE	ISO 9001:2015	Nil	29/03/2021	Nil	

<b>8. Provide details regarding the composition of the IQAC:</b>		
<ul style="list-style-type: none"> <li>Upload the latest notification regarding the composition of the IQAC by the HEI</li> </ul>	<a href="#">View File</a>	
<b>9.No. of IQAC meetings held during the year</b>	<b>3</b>	
<ul style="list-style-type: none"> <li>Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?</li> </ul>	<b>Yes</b>	
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded	
<b>10. Did IQAC receive funding from any 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>		
<b>1. NEP implementation</b>		
Applied to NBA		
NIRF		
Recognition to college toppers		
introduction of new BE programs		
Recognition of best researcher		
project open house		
<b>12. Plan of action chalked out by IQAC at 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	
Awareness on NEP	As per VTU guidelines NEP 2020 was introduced to the first year students. More emphasis was given to hands on training and certification courses.	



	<p>Project based learning is introduced in the first year.</p> <p>Four certification courses introduced in the first year.</p>
NIRF	NIRF data submitted.
Recognition to college toppers	<p>Three UG across the college toppers were identified and given a Gold, Bronze, Silver Medals along with certificates and cash prize of Rs.25,000, Rs. 20,000, Rs. 15,000 to be given during the Graduation ceremony.</p>
Three new BE programmes are planned.	<p>approvals are obtained from the compitent authorirites to start three progrmmes namely 1. Computer Science and Business Systems, 2.Computer Science and Engineering (Cyber Security), 3. Computer Science and Engineering ( Data Science)</p>
Recognition of best researcher	<p>To encourage the research culture, as a policy, it was decided to recognize best Researcher every year based on various factors like, Patents, publication, funding, Citation index, impact facotors etc. An internally commiitee will short list the application and finally an external team will select the best among the short listed candidates.</p>
Project open house	<p>Over 350 projects are displayed for the benefit of the junior students and these projects are evaluated for four catagories by external experts departmentwise.</p>
13.Was the AQAR placed before the statutory body?	Yes

<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	
Name of the statutory body	Date of meeting(s)
NBA	14/05/2022
<b>14. Was the institutional data submitted to AISHE ?</b>	Yes
<ul style="list-style-type: none"> <li>Year</li> </ul>	
Year	Date of Submission
2021	15/01/2022
<b>15. Multidisciplinary / interdisciplinary</b>	
<p>Dayananda Sagar College of Engineering encourages students and faculty to interact and work together with other departments on multi disciplinary model. Projects are carried out in combinationn of two departments in interdesciplinary way. Evaluation is done combindly by both the department faculty. National and international conferences are organised and conducted by cluster of programmes. Five clusters namely IT, Circuits, Civil, Chemical and Mechanical Sciences are present. Open electives are offered for other descipline students. Compitions, Hackathons are conducted for all the branches which facilitates interaction between the faculty and students across deparments.</p>	
<b>16. Academic bank of credits (ABC):</b>	
<p>Institute will folow the guidelines of NEP and University from time to time.</p>	
<b>17. Skill development:</b>	
<p>Skill development is given emphasis in the college. Various workshops and hands-on experiance courses are conducted. In the first year as part of NEP four certification, hands-on courses are conducted namely 3D printing, Auto CAD, python Programming.</p> <p>Through the department of Center for innovation and learningg students are trained in softskills like communication, public speaking. Regardng placement students are trained to write CV,</p>	

group discussion, technical writing, analytical skills, reasoning etc. right from first semester to eighth semester. These sessions are conducted by external and internal subject experts.

Different departments train students in the core areas with laboratory and computational skills through hands-on training, workshops, guest lectures, industry visits, competitions like hackathons, quiz, oral and poster presentations.

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

Local Language Kannada is offered to all the students in first and second year. There are two parts namely Balake Kannada (Conversational Kannada) and Samskruthika Kannada (cultural Kannada). This will enable students to converse in local language for day to day business. These courses are handled offline.

English as a language is also offered for first year students under two courses namely Technical English, Communicative and professional Technical writing. A software by name ITELL is used apart from class room teaching.

Institution is conducting national programmes like Independence day, Republic day, Yoga day, Teachers day, world earth day, Environmental day, Womens day and local festivals like Karnataka Day (Kannada Rajyothsava), Festivals like Ganesha chaturthi, Sri Ram Navami etc.

Institution conduct cultural programme in which all state students will exhibit their state culture during ethnic day, singing, dance programmes, college fest namely Furore, Cultura. These programmes are conducted by dedicated wing CPI, Centre for performing arts.

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

Dayananda Sagar College of Engineering is an autonomous institute constantly endeavoring to update the existing curricula, based on the industrial and societal needs. College adopts Outcome Based Education (OBE).

The curriculum content addresses the OBE elements, such as PEO, CO, PO and PSO .

Curriculum Design Process is framed with an insight to align with

the objectives and teaching learning process with defined outcomes. The guidelines and inputs are considered from the AICTE, VTU, Industry Conclave, alumini, parents, complied by faculty and approved by Board of Studies & Academic Council to revamp the curriculum as per the current trends in technology. Institution aims at holistic growth of the students by integrating crosscutting issues relevant to the Professional ethics, Environment and sustainability and human values into the curriculum. As a social responsibility, Institution organizes various programmes on education, health and environment etc., subsumed under NSS activities. Institution encourages organizing workshops, conferences, hackthons etc., as value added courses to enrich the student's ability and skills in the latest fields. Processes are in place for academic audits and feedback from stakeholders towards continuous improvements in Curriculum, Design and Delivery.

## 20.Distance education/online education:

DSCE is equipped and well versed with online education. During covid pandemica the knowledge was imparted online for all the theory and for few of the laboratories. Post pandemic hybrid mode is adopted where in few of the theory oriented courses are delivered online like interdesciplinary, open electives. DSCE is encouraging its facultya and students to use the online platomrs MOOCs (Swayam, NPTEL, Coursera etc) for suportive learning. Due credit waitage is provided in the curriculum. DSCE is recongised as one the top colleges utilising MOOCs. Apart form regular courses and Labs are conduted using online method in association with NITK Surathkal.

Interships are also conducted using online plat forms. DSCE is ranked All India 10th rank among 500+ colleges by intershaala.

## Extended Profile

### 1.Programme

1.1

28

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

**2.Student**2.1 **8242**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>

2.2 **1991**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.3 **8064**

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

**3.Academic**3.1 **1184**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

3.2 **434**

Number of full-time teachers during the year:

<b>Extended Profile</b>	
<b>1.Programme</b>	
1.1 Number of programmes offered during the year:	<b>28</b>
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
<b>2.Student</b>	
2.1 Total number of students during the year:	<b>8242</b>
File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>
2.2 Number of outgoing / final year students during the year:	<b>1991</b>
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
2.3 Number of students who appeared for the examinations conducted by the institution during the year:	<b>8064</b>
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
<b>3.Academic</b>	
3.1 Number of courses in all programmes during the year:	<b>1184</b>
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

3.2	434
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.3	434
Number of sanctioned posts for the year:	
<b>4.Institution</b>	
4.1	458
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	122
Total number of Classrooms and Seminar halls	
4.3	2930
Total number of computers on campus for academic purposes	
4.4	4792
Total expenditure, excluding salary, during the year (INR in Lakhs):	

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Dayananda Sagar College of Engineering is an autonomous institute constantly endeavoring to update the existing curricula, so as to address the challenges faced by the Industry and the society under the changed global scenario. The Institution has adopted Outcome Based Education and designed various OBE elements such as PEO, PO, PSO and CO's for the various academic programmes to strengthen the (enrich the

quality) curriculum design.

The curriculum is designed considering :

- Guidelines provided by UGC, AICTE and VTU
- Inputs from Professional body, alumni and Industry experts
- Syllabus of premier institutions

The Board of Studies (BOS) and Academic Council (AC) have domain experts serving as members and syllabi of all the programmes are framed by taking the suggestions from all stake holders.

The Institute has a practice to organize Industry Conclave to revamp the curriculum as per the current trends in technology. Industry experts are invited stream wise to discuss the technology and subjects that are to be introduced in the curriculum

Procedures followed during the curriculum design :

1. Basic course structure is prepared by the faculty of the programme.
2. Course owners will prepare the detailed syllabus of the courses offered by the department.
3. Course outcomes are defined for all courses
4. Detailed syllabus is discussed with the domain experts during BOS meeting
5. The final version of the scheme and syllabus is presented to the academic council for approvals.

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

**1.1.2 - Number of Programmes where syllabus revision was carried out during the year**

**12**



File Description	Documents
Minutes of relevant Academic Council/BOS meeting	No File Uploaded
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

### 1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

321

File Description	Documents
Curriculum / Syllabus of such courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<a href="#">View File</a>
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

## 1.2 - Academic Flexibility

### 1.2.1 - Number of new courses introduced across all programmes offered during the year

28

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

### 1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

14

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

### 1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Dayananda Sagar College of Engineering is an Institution which aims at holistic growth of the students by integrating crosscutting issues relevant to Professional Ethics, Environment and Sustainability, Human values in to the curriculum. It also organizes lecture series, conferences, and talks from spiritual gurus. NSS organizes awareness programs on health and environment, blood donation drive, camps on social responsibilities. To inculcate ethical, social and moral values, the institution has organized expert talks from learned people, yoga and meditation classes. The other activities that have been organized under NSS are blood donation camps, Swatch Bharath Abhiyaan and visit to Government schools, orphanage and old age homes. During Induction program for the first year UG students, a series of lectures are organized on Universal Human Values. Constitution of India and Professional ethics are the courses offered to the entire first year UG program. To give exposure to professional practices, departments organize Industrial visits, talks from experts of professional bodies like IEEE, ACM, etc. Dayananda Sagar College of Engineering organizes many awareness programs such as: tree plantation drive, Swach Bharath Abhiyan, E-waste and Plastic eradication, water pollution etc. as a part of Institutional Social Responsibility activity.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	<a href="#">View File</a>
Any additional information	No File Uploaded

**1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year****24**

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	No File Uploaded

**1.3.3 - Number of students enrolled in the courses under 1.3.2 above****2337**

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	No File Uploaded

**1.3.4 - Number of students undertaking field work/projects/ internships / student projects****2272**

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	No File Uploaded

**1.4 - Feedback System**

**1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni**

**A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	<a href="https://www.dsce.edu.in/naac/">https://www.dsce.edu.in/naac/</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	No File Uploaded

<b>1.4.2 - The feedback system of the Institution comprises the following</b>	<b>A. Feedback collected, analysed and action taken made available on the website</b>
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File Description	Documents
Provide URL for stakeholders' feedback report	<a href="https://www.dsce.edu.in/naac/">https://www.dsce.edu.in/naac/</a>
Any additional information	No File Uploaded

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Enrolment of Students

##### 2.1.1.1 - Number of students admitted (year-wise) during the year

1728

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 reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

197

File Description	Documents
Any additional information	<a href="#">View File</a>
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 students' learning levels and organises special programmes for both slow and advanced learners.

Every year, Dayananda Sagar College of Engineering provides an orientation program for first year students. This programme introduces students to the institute's curriculum, co-curricular activities, rules and regulation. Each department offers training on communication skills, personality development.

Workshops are organized for both advanced and slow learners to improve their skills. Advanced learners are encouraged through participation in programmes like conferences, seminars, hackathons, guest lecturers from industry experts. They are supported and helped to present their projects, ideas and papers in different colleges of national and international repute. Toppers are given ranks and medals in each programme.

For Slow learners: They are supported by conducting remedial and additional tutorial classes and also by providing study materials. Question papers and scheme are shown to students to indicate where they have lost marks and to improve upon the same.

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

### 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
30/06/2022	8242	434

File Description	Documents
Upload any additional information	No File Uploaded

## 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:

Dayananda sagar College of Engineering adopts student centric methods to enhance student involvement as a part of participative learning and problem solving methodology. Students participate in various seminars and technical quiz. Every department conducts guest lecture series, assign mini projects for experiential learning right from first semester. Each department ensures that all the students actively participate in various events conducted by both intra and inter departments level. The faculty members incorporate experimentation , demonstration, visual aids in TLP and organizing exhibitions for students to present their activities.

Through alternative assesement tools like think share pair, reflection notes, paper reviews,quiz, presentations, lab visitis, group discussions, seminars,interships, hands on trainings students are evaluated for experiential learning.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

In addition to conventional method of teaching, faculty members use ICT enabled material such as PPTs, animated videos. The students are exposed to advanced technology as well as practical learning. Faculty conducts online classes using Microsoft team, Zoom, Google meet platform. ICT solutions like ERP are utilized for parent teacher student meeting, mentor mentee sessions. Regular practical sessions ,access to the digital library, Online courses (MOOCS), NPTEL, online journals, online tests and accessibility of non -print material for students are all part of the ICT enabled teaching learning process.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="https://www.dsce.edu.in/images/Civil/dept/E-Notes_Civil_engg.pdf">https://www.dsce.edu.in/images/Civil/dept/E-Notes_Civil_engg.pdf</a>
Upload any additional information	<a href="#">View File</a>

### 2.3.3 - Ratio of students to mentor for academic and other related issues

#### 2.3.3.1 - Number of mentors

410

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

### 2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

DSCE prepares Academic calendar in the beginning of the semester keeping in view of the calendar set by university. Based on this each department prepares departmental calendar of events including activities, tutorial, club activities etc. College conducts 3 internal tests and one assignment and one alternate assessment tool (AAT). The dates are included in calendar of events. Each faculty prepares teaching plan for the semester and it is uploaded into ERP portal. After completing tests books are evaluated and marks are shown to students and uploaded into ERP. After first test each mentor conducts meeting with mentees and identifies slow and fast learners and appropriate activities are planned and conducted. The performance of the students is informed to the parents. After all the CIE, assignment and AAT, Internal audit is conducted and finalized marks sent to examination section.

Similarly labs groups are made for each batch and the students are given with manuals to prepare before coming to lab, and after performance of the practicals, viva is conducted. Continuous evaluation is done based on preparation, conduction, writing the records and viva. At the end of the semester, an internal exam

is conducted similar to final exam and evaluated. A ratio of 50;50 weightage is given for continuous evaluation and final exam.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<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

434

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	No File Uploaded

### 2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

170

File Description	Documents
List of number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

182



File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	No File Uploaded

## 2.5 - Evaluation Process and Reforms

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

48

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	No File Uploaded

### 2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	No File Uploaded
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

ERP system provides information to parents and students immediately after CIE tests are conducted. The marks obtained and attendance information is also informed through SMS. The examination and evaluation guidelines is available on the college's website. Academic calendar of events are also available on the website. Students are notified 10 days in advance about internals test dates. Course coordinator sets the question paper as per the COE guidelines and it is scrutinized

by test committee members before going for printing question papers.

Internal and external examination grievances are promptly resolved. The HOD along with the faculty members resolve the issues in cognition with the college's grievance redressal cell. Re totaling issues are taken care of by COE and Principal.

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

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Department Advisory Committee frames COs for various courses. The teaching learning process is more effective when students understand the topics of importance. Outcomes clearly define student expectations for knowledge, abilities, and competencies. Course curriculum assessment methods are chosen to gauge desired outcomes. The outcomes are frequently analyzed and evaluated. The Institute designs supplementary courses to meet course outcomes. Faculty members attend workshop on POs and COs development. The Program Outcomes are displayed in the department and are also available on the institute's website.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="https://docs.google.com/document/d/1V65jz71LwMqLJ6z7o6Zxhjsch70NcP8y/edit?usp=sharing&amp;oid=100384699891211858406&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1V65jz71LwMqLJ6z7o6Zxhjsch70NcP8y/edit?usp=sharing&amp;oid=100384699891211858406&amp;rtpof=true&amp;sd=true</a>

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

The CO attainment is computed by the Direct and Indirect assessments. The Direct assessment assignments, quiz, case studies. The indirect assessment is carried out through course exit survey.

$CIE = [80\% \text{ of IA Test} + 20\% \text{ of Assignment \& Quiz}]$

$\text{Direct Attainment (DA)} = [60\% \text{ of CIE} + 40\% \text{ of SEE}]$

$\text{Indirect Attainment (IDA)} = \text{Course EXIT survey.}$

$\text{CO Attainment} = 80\% \text{ of Direct Attainment} + 20\% \text{ of Indirect Attainment}$

The POs and PSOs attainment is computed by the Direct and Indirect assessments. The Direct assessment is average values of POs and PSOs of all subjects from 1 semester to 8th semester.

The Indirect assessment includes Graduate EXIT survey, Alumni survey and Employer Survey.

$\text{POs and PSOs Attainment} = [80\% \text{ of average values of POs and PSOs}] + [20\% \text{ of Indirect attainment}]$ .

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

#### 2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

1984

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
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://drive.google.com/file/d/1E5o\\_MEJzs-LiUXr8CeqdA5ZMTVLOyLDG/view?usp=share\\_link](https://drive.google.com/file/d/1E5o_MEJzs-LiUXr8CeqdA5ZMTVLOyLDG/view?usp=share_link)

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Research Promotion Guidelines of Dayananda Sagar College of Engineering (DSCE) : Faculties and students regularly involve themselves in research activities related to various domains. At DSCE, most of the departments are recognized as Research Centres approved by Visvesvaraya Technological University (VTU) in different branches of Science, Engineering and Technology catering to the research scholars for obtaining their Ph.D. The Institution has an information resource centre in the form of a Digital Library with good infrastructural facilities to enable researchers to review the recent literature in the core areas of research. DSCE also encourages faculties regularly to involve themselves in research related activities and also to undertake sponsored research projects from various Governmental agencies. Research and Development is carried out in several thrust areas like Cloud Computation, Environment, Image Processing, Artificial Intelligence & Machine learning, Cyber Security, Computer Networks, Software Engineering, Materials Science, Nano synthesis, Telecommunication, Sensor networks and so on. The PhD candidate should register at a DSCE Research Centre after getting a provisional registration letter from VTU and are permitted to do their research in respective Research Centre.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	<a href="https://assessmentonline.naac.gov.in/storage/app/public/aqar/26075/26075_229_523.pdf?1677577102">https://assessmentonline.naac.gov.in/storage/app/public/aqar/26075/26075_229_523.pdf?1677577102</a>
Any additional information	<a href="#">View File</a>

### 3.1.2 - The institution provides seed money to its teachers for research

#### 3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	No File Uploaded
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

### 3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

03

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.2 - Resource Mobilization for Research

#### 3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

2709.205

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	No File Uploaded
List of projects and grant details	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 3.2.2 - Number of teachers having research projects during the year

59

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	<a href="#">View File</a>

#### 3.2.3 - Number of teachers recognised as research guides

115

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

### 3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

14

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	<a href="https://docs.google.com/spreadsheets/d/1-Gs9d4xe_8qpLIMwnIKPyVwgojL7xfS/edit?usp=share_link&amp;ouid=104628933455097261582&amp;rtpof=true&amp;sd=true">https://docs.google.com/spreadsheets/d/1-Gs9d4xe_8qpLIMwnIKPyVwgojL7xfS/edit?usp=share_link&amp;ouid=104628933455097261582&amp;rtpof=true&amp;sd=true</a>
Any additional information	No File Uploaded

### 3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

DERBI Foundation is a section 8 company hosted by Dayananda Sagar College of Engineering and was incorporated in 2015. It is supported by Department of Science and Technology, Ministry of Electronics & IT and Invest India. It has supported more than 110 startups with mentoring, pilot trials, prototyping support and access to grants and funds. Cumulatively DERBI Foundation has obtained grants from various schemes to the tune of Rs.25Cr. Institution Innovation Council of DSCE organizes several events related to IPR, Startups, Entrepreneurship and Incubations for faculties and students. We have Centre for Innovation & Leadership (CIL) to bridge the gap between pure academics and corporate realities. This centre aims to impart innovative soft skill training programs for all the students. DSCE-TOYOTA Centre of Excellence was established in the Department of Automobile Engineering for enhancing the technical knowledge of the students. Volvo Group India Private Limited established DSCE-

VOLVO Centre of Excellence in 2017 in the Department of Automobile Engineering for enhancing the technical knowledge of the students. The 3D Printing Laboratory was established in the Department of Mechanical Engineering to build three-dimensional objects from a computer-aided design (CAD) model. AUTODESK-DSCE -Centre of Excellence was also established in the Department of Mechanical Engineering.

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

### 3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

41

File Description	Documents
Report of the events	No File Uploaded
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.4 - Research Publications and Awards

**3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software**

A. All of the above



File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

#### 3.4.2.1 - Number of PhD students registered during the year

12

File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.27

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

16

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

### 3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

#### 3.4.5.1 - Total number of Citations in Scopus during the year

965

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

#### 3.4.6.1 - h-index of Scopus during the year

4.87

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.5 - Consultancy

#### 3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

12.043

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	No File Uploaded
List of consultants and revenue generated by them	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

637187

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View File</a>
List of training programmes, teachers and staff trained for undertaking consultancy	<a href="#">View File</a>
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

### 3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

There are various wings of organizations and clubs involving students and faculty to contribute to the well-being of the society. Different extension activities carried out by the faculty and students of the Institution are listed below: i. Voluntary blood donation camp ii. Best out of waste iii. Fund collection drive iv. Stem cell transplantation awareness v. Visit to "Sampathu" an Orphanage vi. Visit to Asha Niketan through SAGAR SMILES vii. SWACHH BHARAT Programme viii. Traffic safety awareness campaign ix. Free dental screening camp x. Tree planting xi. Training on Terrace gardening xii. Yoga Classes

xiii. Nature club activities xiv. Visit to Anatha Shishu Nivasa Orphanage xv. IEDC Activities xvi. Jatha to create awareness on water, sanitation and health .

About NSS: National Service Scheme (NSS) was inaugurated in DSCE in the year 2017. For the details of the activities of the club please visit link : <https://www.dsce.edu.in/campus-life/dsce-clubs/nature-club>

About IEDC @DSCE:

Dayananda Sagar Institution produces a large number of trainers to fulfill the need of the industry, R&D institutions and other sectors of the economy in order to make the optimal use of facilities For details of the activities, please visit link

[http://https://www.dsce.edu.in/research/iedc](https://www.dsce.edu.in/research/iedc)

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

### 3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

0

File Description	Documents
Number of awards for extension activities in during the year	No File Uploaded
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

### 3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

5

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

309

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.7 - Collaboration

#### 3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

19

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

39

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

### 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 equipments, etc.

The campus is spread over 23 acres of land. The Institution has a total of 122 classrooms with ICT facility, 134 laboratories, one central library, 3 auditoriums with ICT facilities, one board room, one amphitheatre, one playground, one basketball court and one tennis court and one auditorium in administrative block, separate hostels for boys, girls and International students. The institution has 2930 computing equipment for teaching learning process and classrooms are equipped with Wi-Fi / LAN. The total Internet bandwidth available in the campus is 1 Gbps. The campus is Wi-Fi enabled. The central library of the institution is of 5650 sq.m, spread over seven floors, with a total seating capacity of 800. It has 38768 number of Titles, 136852 number of volumes, 155 National and International Journals in print. The library includes with Digital Library with modern facilities such as RFID catering to 477 members and is the first of its kind in private sector engineering college in Karnataka. The Library has 32000 e-Books, 3860 CDs and DVDs and about 6500 e-journals. DSCE is a member of National Digital Library with 6586 memberships and also a member of VTU e-Consortium, which provides access to e-resources. An audio-visual auditorium of 80 seating capacity is exclusively made available for e-videos.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.dsce.edu.in/library">https://www.dsce.edu.in/library</a>

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

Dayananda Sagar College of Engineering has well-established sports infrastructure. Physical Education Director heads the department and is assisted by individual coaches for sports activities. The Indoor Sports Complex houses two International level Squash courts, Multi-purpose Gymnasium and Yoga/Aerobics hall. The total built-up area of indoor sports complex is 558 sq.m. The outdoor play ground of area 6500 sqm has facilities for Football, Basketball, Cricket, Volleyball, Throw ball, Kho-Kho, and Synthetic Tennis court. The sports facilities and the playground user rate per day is excellent. Students are

motivated to use the sports facility by issuing Certificates/Prizes for outstanding achievers in sports and cultural events during college day celebration.

Every year, Dayananda Sagar College of Engineering organizes, biggest techno-cultural-adventure fest in the college for 3 days in the name of FURORE. There will be individual teams for each art, and auditions are conducted for students at the beginning of academic year. Notable teams representing the Institute are "MUDRA" - Indian Contemporary Dance Group, "Samudra"- The Music Group, "ABD" - Western Hip Hop Dance Group, "CK-6"- Western Dance Group and "Rhythmic Rockers" - Bollywood Dance Group. The Institution has an auditorium of 700 seating capacity and an amphitheatre of area 237 sq.m. for conducting various cultural activities.

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://www.dsce.edu.in/naac/criteria4/AOAR_21-22/4.1.2/4.1.2_link.xlsx">https://www.dsce.edu.in/naac/criteria4/AOAR_21-22/4.1.2/4.1.2_link.xlsx</a>

#### 4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

122

File Description	Documents
Upload any additional information	No File Uploaded
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

349.26

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
Any additional information	No File Uploaded

## 4.2 - Library as a Learning Resource

### 4.2.1 - Library is automated using Integrated Library Management System (ILMS)

- Nature of automation (fully or partially)- Fully
- Name of the ILMS software- Web Centric 10 Libsys software on Cloud with RFID Technology
- Version- 10
- Year of automation-2008

Web centric Libsys 10 software on cloud, library management software has a user friendly interface, which is built on international standards. It covers Acquisition, Cataloguing, Circulation, Serial control and OPAC (Online Public Access Catalogue). A seamless workflow with a powerful tool enables library staff to manage library operations efficiently. RFID is integrated into this software with the following modules;

- Book Drop
- Self Check Out Kiosk
- Hand Held Reader
- EAS Gate Antenna



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://dsceopac.libsys10.in/home/dashboard">https://dsceopac.libsys10.in/home/dashboa rd</a>

**4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources**

**A. Any 4 or more of the above**

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

**13.28**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
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 - Usage of library by teachers and students (footfalls and login data for online access)**

**4.2.4.1 - Number of teachers and students using the library per day during the year**

**225**

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

### 4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

At the beginning of the academic year, assessment for replacement / up gradation / addition of the existing infrastructure is carried out based on the suggestions of Heads of the departments, lab technicians and system administrator after reviewing course requirements, computer - student ratio, budget constraints , working condition of the existing equipment and also students' grievances.

Optimal deployment of infrastructure is ensured through conducting workshops/awareness programs/training programs for faculty on the use of new technology.

Effective utilization of infrastructure is ensured through appointment of adequate and well qualified lab technicians/system administrators.

The Institute has always been reviewing the current needs of internet bandwidth and accordingly it is upgraded from time to time (once in 3 months). DSCE has established Local Area Network (LAN) at the centre and it is extended to Offices and various Sections of Main Office. Server, Switch (Juniper) and Firewall are in place. The college also promotes Open Source Software. Fortigate firewall server FG800C is used and its periodic renewal is ensured. Most of the labs are equipped with LCDs for online demonstration to students. The internet connection has a capacity of 1Gbps bandwidth.

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

#### 4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
8242	2824

File Description	Documents
Upload any additional information	<a href="#">View File</a>

#### 4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 750 Mbps

File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	No File Uploaded

#### 4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

B. Any three of the above

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	<a href="#">View File</a>

#### 4.4 - Maintenance of Campus Infrastructure

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

4442.92

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

etc.

One Chief Civil Engineer, two Supporting Civil Engineers, one electrician, and two Carpenters work in the Institute's Maintenance Department to maintain the building's physical infrastructure, including carpentry and electrical work in labs and classrooms. Cleaning of classrooms and other built-up areas is outsourced to housekeeping staff. Housekeeping is outsourced to GHAS and they have employed 79 housekeepers and 8 supervisors who report to Facility Department. Air conditioning and lift maintenance is done by AMC The water source at Dayananda Sagar College is 8 numbers of bore wells. Solar panel / water heaters facilities hostels in the campus. Using SBR technology, the institute's wastewater treatment facility can process 180KLD of wastewater each day. In a separate effluent treatment facility, grey water and the chemical wastewater from laboratories are combined. The college offers parking facilities to students and staff. For staff at gate2. Four-wheeler and two wheelers parking facility is available for students, VIP at gate -1. KSPCB approves authorized vendors to take e-waste generated from laboratories for treatment, recycling, and disposal at the end of each semester.

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

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

3316

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
Upload any additional information	No File Uploaded

**5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year**

122

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

**5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology**

A. All of the above

File Description	Documents
Link to Institutional website	<a href="https://www.dsce.edu.in/placements/cil">https://www.dsce.edu.in/placements/cil</a>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	No File Uploaded

**5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year**

1305

File Description	Documents
Any additional information	No File Uploaded
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines**

A. All of the above

**of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>
Upload any additional information	No File Uploaded

## 5.2 - Student Progression

### 5.2.1 - Number of outgoing students who got placement during the year

1305

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 outgoing students progressing to higher education

80

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	No File Uploaded

### 5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

**5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year**

157

File Description	Documents
Upload supporting data for students/alumni	<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 and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year**

25

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution**

Students being the main stake holders are encouraged to be a part of institutional development activities. Their feedback is sought on various important academic activities such as syllabus, curriculum and also technical activities. They are continuously involved in all the activities and all the coordination committees. The Institute has various active student committees to carry out various Academic and cultural activities. The institute has following Professional Societies, Aeronautical Society of India(AeSI), SAE India Collegiate Club, Association of Microbiologists of India (AMI) Bangalore Chapter, Indian Institute Of Chemical Engineers(IIChE), The Electrochemical Society Of India, Indian Water Works Association, Indian Concrete Institute (Ici), International Association For Coastal Reservoir Research (IACRR), Institution Of Engineers (India) (IEI), IEEE RAS Bangalore Chapter, ACM Student Chapter, IEEE-ECE-DSCE-Students Chapter, IEEE Power and Energy Society, Indian Value Engineering Society, Indian Institution of Industrial Engineering, Instrument Society of

India (Electronics & Instrumentation) Instrument Society of India (Medical Electronics), Indian Society of Heating, Refrigerating & Air Conditioning Engineers (ISHRAE), The Institute of Indian Foundry men (IIF), IETE - Institution of Electronics and Telecommunication Engineers.

Web Link:<https://www.dsce.edu.in/campus-life/dsce-professional-societies>

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://www.dsce.edu.in/campus-life/dsce-professional-societies">https://www.dsce.edu.in/campus-life/dsce-professional-societies</a>

### 5.3.3 - Number of sports and cultural events / competitions organised by the institution

13

File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
Upload any additional information	No File Uploaded

### 5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Dayananda Sagar Alumni Association is a registered alumni body that is established with a mission to develop relations between all members of the DSCE community, promote continuing education and create opportunities for networking, employment and business for all the members. The Alumni Association is registered in 2016-17 with Government of Karnataka registration No: DRB-2/SOR/03/2016-17 dated 26/7/2016. Mega Alumni meet is conducted every year. Three distinguished Alumni are invited as Guest, last year it was held on 17th December 2022. Alumni from the entire Institute attended the Mega Alumni meet. The alumni support and actively participate in various departmental activities such as Placement, Invited talks, Guest lectures.



They always assist the institute in organising Industry Visits and offering projects. The Annual Meet emphasizes on creating a special bond between the passed out graduates, existing students, faculty and the staff, which is vividly depicted by the motto of "Connect, Create and Communicate" The alumni of the DSCE are an integral part of the extended DSCE family. The department level alumni meet is conducted every year in order to reconnect with the Alumni and celebrate their success and various achievements.

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

#### 5.4.2 - Alumni's financial contribution during the year

E. <2 Lakhs

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

##### Vision

To impart quality technical education with a focus on Research and Innovation emphasizing on Development of Sustainable and Inclusive Technology.

##### Mission

To provide an environment that enhances creativity and Innovation in pursuit of Excellence.

To nurture teamwork in order to transform individuals as responsible leaders and entrepreneurs.

To train the students to the changing technical scenario and make them to understand the importance of Sustainable and

### Inclusive technologies.

The management has set up first-rate infrastructure and has created an ideal environment to deliver high-quality technical education. It has carefully chosen the best and highly qualified professors in all departments. Most Professors hold doctorates from IITs, NITs, and other reputed universities. The institution is very active in research and has good lab facilities with top-notch hardware and supporting infrastructure. Project funding and Incentive rewards are motivation to carry out quality research.

A well-established Entrepreneurship Development Cell is catering the current students and graduates in promoting innovations. The Institute supports a variety of initiatives to advance the research culture which includes organizing conferences, seminars and guest lectures. Committees like Research Advisory, Research Ethics, Committee to monitor the code of conduct etc. have been actively involved to produce quality research.

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

### 6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The leadership of the institution has adopted a decentralized and participative style of functioning under which day to day governance is administered through various committees. Representation of teachers in administrative, academics and research committees have enabled them to provide necessary inputs for decision making/ recommendations.

Leadership at different levels, starting from Principal along with various personnel enables the institution to run smoothly at all levels. The committees involve all the stakeholders in the decision-making process to ensure smooth functioning of the teaching and management process. The top management monitors the work done at various levels and makes the appropriate decisions to achieve the vision of the college. Leadership is provided

with prime importance at all levels and is encouraged amongst the faculty and students also. Several committees are formulated to take care of all the activities from class monitoring to exam conduction to academics and research. Some of the committees which look into the day-to-day activities are Periodical Tests & Performance Analysis, Institution Social Responsibility, Examination, Sports, Timetable, Question papers Review, Result Review, Students Attendance Review, SC/ST/OBC/MINORITY committee, RTI, Research Advisory, Ethics Committee for research, Committee to Monitor Code of Conduct.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://www.dsce.edu.in/about/committees/committees">https://www.dsce.edu.in/about/committees/committees</a>

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

To achieve the vision and missions, DSCE has a perspective plan for development activities & deploys at various levels. This is achieved through improvements in TLP through curriculum development, Industry interactions, MOUs, R&D centers, Incubation cells, Professional society chapters, Student Counselling Cells. The college has set up Centre of Excellences, various MOUs, DERBI startup foundation & Centre for Innovation and Learning (CIL).

### Examination and Evaluation

The examination system is well established with digital evaluation system. Examination related announcements is provided to students on the institute's website

### Library, ICT and Physical Infrastructure/Instrumentation

Department library is well equipped and the resources are available for students and faculty members. Majority of the classrooms are equipped with projectors to facilitate

interactive and demonstrative TLP.

TLP are prepared by faculties ahead of every semester and reviewed by HOD in regular meetings. Faculty members implement effective TLP with tutorial classes for the benefit of slow learners.

#### Industry Interaction/Collaboration

Engineering conclave is organized annually, where an industry expert will be invited and their feedback will be considered during the up-gradation of the syllabus to make the syllabi industry tuned. Departments also organize frequent industrial visits which enables students to connect with industries

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	No File Uploaded

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

DSCE continuously strives to improve with the aim to impart best education in the country. This is achieved through commitment, ethics, sincerity and transparency to treat the stake holders with dignity and respect.

**Management:** The institute is governed under the strong leadership of the Chairman; the Vice Chairman & the everyday affairs being supervised by the Secretary. The management has efficient workforce with enriched knowledge and vast experience. Under their able leaderships, the institute governs a strong faculty and student friendly administration section for smooth functioning.

#### Governing Council:

The Governing Body of the College comprises of representatives from management, Industry, Academia and regulating agencies like AICTE, UGC and VTU. Important decisions regarding the policy matters and administration affairs are taken in these meetings

and the implementation is reviewed by the governing council.

**Academic council:**

Academic Council comprising of internal members along with VTU nominee and external experts meets once in a year and approves BOS recommendations with adherence to VTU guidelines.

**Appointment:** There is recruitment committee comprising of representative from management, Principal, HOD, a senior professor from department, HR and an external subject expert. The service rules are well framed and in practice.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="https://www.dsce.edu.in/images/Pdf/organogram.pdf">https://www.dsce.edu.in/images/Pdf/organogram.pdf</a>
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://www.dsce.edu.in/images/Home/SERVICE_RULES_DSCE_-2017.pdf">https://www.dsce.edu.in/images/Home/SERVICE_RULES_DSCE_-2017.pdf</a>

**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>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	No File Uploaded

**6.3 - Faculty Empowerment Strategies**

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Being an autonomous institution, DSCE has been providing all types of employee welfare benefits. The college provides due encouragement for various career development activities equally for teaching and non-teaching faculty by permitting and supporting them to utilize research facilities, pursue higher studies, undergo various skill enhancement programs. Teachers were granted on-duty leave to attend intellectual attainment programs for participation and presenting research papers or as resource persons. Staffs were permitted to attend various in-house or external training programmes, FDP's, workshops etc. to enhance their skills and knowledge to achieve career growth and contribute to institutional developments. Following welfare schemes are provided to staff:

1. ESI & PF facility is as per the norms.
2. Gratuity provision to all employees
3. Vacations for Teaching Staff
4. EL facilities for non-teaching
5. SL for teaching & non-teaching staffs
6. OOD facility for attending research work, Seminars, Workshops, FDPs, Conferences
7. Paid ML for 3 months, extended on request without salary
8. Sabbatical Leave for getting higher qualifications (pursuing higher studies)
9. Uniform for Attenders, Housekeeping Staff, Workshop staff & Drivers
10. Creche facility available for Children of Employees
11. Canteen & mess facilities
12. Hospital facility
13. Hostel facility

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.dsce.edu.in/images/Home/SERVICES_RULES_DSCE_-2017.pdf">https://www.dsce.edu.in/images/Home/SERVICES_RULES_DSCE_-2017.pdf</a>

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

18

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 programmes organized by the Institution for its teaching and non-teaching staff during the year**

16

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)**

203

File Description	Documents
Summary of the IQAC report	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
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

Institution conducts internal and external financial audits regularly. The accounts are regularly audited to ensure financial compliance.

**Internal Audit:** Annual internal audits are conducted in departments. The departments propose their budgetary requirement for the particular year to the management. Yearly budget for institute is prepared at the beginning of financial year, considering potential income and expenditures (recurring and non-recurring). The purchase committee scrutinizes and approves the requirements.

**External Audit:** At Institution level, external audit will be done by the management annually. Finance department takes care of overall budget maintenance of the college. Financial audits are conducted whenever a funded project is approved by any funding agency.

The auditor verifies and approves the utility of funds for every financial year, before the closure of the research activity. A separate R & D account is maintained by the college and amount will be deposited to that account, which could be utilized for the research purposes.

- a) Nonrecurring expenses are done as per government norms
- b) Quotations will be invited and comparative statement will be prepared.
- c) Recurring expenses like salary, contingency travel, secretarial expenses will be done as per the norms and bills will be collected and maintained.



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://drive.google.com/file/d/14oACVdRHFW7i87g5xEenGTAEI4jU1qJD/view?usp=share_link">https://drive.google.com/file/d/14oACVdRHFW7i87g5xEenGTAEI4jU1qJD/view?usp=share_link</a>

#### 6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

02

File Description	Documents
Annual statements of accounts	<a href="#">View File</a>
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

The Maximum resource mobilization is through tuition and miscellaneous fees collected from the students.

1. Fees charged as per the university and government norms from students.
2. Grants for Research activities from Government and Non-Government Bodies.
3. Optimum utilization of funds is ensured through adequate funds being allocated effective TLP that include Orientation Programs, Workshops, Inter-disciplinary activities, training programs, Refresher Courses and accreditation process that ensures quality education. Budget is utilized to meet operational and administrative expenses and maintenance of fixed assets. Requisite funds are utilized for enhancement of library facilities, development and maintenance of infrastructure, social service activities. Accounts are maintained for respective funds received. For example, a separate R & D account is maintained for funded projects. Non-recurring expenses are executed as per government norms

1. Quotations will be invited and comparative statement will be prepared.

2. For recurring expenses like JRF salary, contingency, travel, secretarial expense will be spent as per the norms and accounts maintained.

3. External auditors are invited annually to carry on the auditing and NOC and utilization certificate, will be procured and reviewed.

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

## 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

IQAC cell is known for quality sustenance and development measures envisioned at Continuous quality improvement and achieving excellence. IQAC cell is involved in improving the curriculum, protorial system, providing research environment, conducting academic audit of the department and facilitating the extra-curricular programs. The Cell ensures coordination among various activities of the institution and commits itself to all good practices.

Two of the best practices:

1. **INDUSTRY CONCLAVE:** DSCE has distinguishing approach of industry institute interaction that is "Engineering Conclave", an activity to strengthen industry and academic cooperation and, in the process, prepare students to be ready for industry and make them employable graduates.

The expert's fine tune the syllabus as per the requirements of the industry.

2. **SWOT analysis:** IQAC insists the SWOC analysis of the

departments. Each department will prepare the SWOC based on parameters like TLP, research, Industry institute interaction, Students activities etc. Based on these certain higher goals are set for each item and the departments work to achieve these goals and at the end of the academic year the set goals are reviewed and the target is analyzed.

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

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

The IQAC has contributed towards improving overall academic and Research environment in the institute.

Syllabus is designed by taking the feedback from the industry experts through engineering conclave, Alumni, students and BOS.

IQAC encourages Technical activities by industrial experts like FDP's and workshops at the department.

Industry internship/Industrial visits are organized for the students as part of their curriculum.

Academic Audit of Departments for both UG and PG programs offers an opportunity to improve the quality in TLP. The audit is conducted at the department. HOD will be the auditor and the audit will be conducted as per the guidelines. Finally, a summary of the audit is prepared and action plan is outlined to improve the quality of academic activities.

**Question Paper Audit:** In order to maintain quality and uniform assessment, question papers are audited periodically. Internal test question papers are audited at department level, scrutinized by a senior faculty. BOE panel is set by the department and approved by BOS for setting Semester end examination (SEE) question papers. The external subject expert along with internal BOE members will scrutinize the question paper, for each course, set by identified paper setters and corrections are incorporated before SEE.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.dsce.edu.in/about/committees/igac">https://www.dsce.edu.in/about/committees/igac</a>

**6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)**

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	Nil
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	No File Uploaded

## 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

Gender equality in education strengthens the quality of education and provides an appropriate learning environment for both girls and boys. The focus on gender equity supports and encourages the students to optimize their educational progress and to become courage and brave enough to face the competitive world. Dayananda Sagar College of Engineering sensitizes students and employees regarding gender equity and takes the social responsibility of reacting to the events happened in the society by various activities. The institute promotes gender equity in admissions, recruitment, administrative functionality

and academic activities. Equality of access to and attainment of educational qualifications is necessary and empowering women to participate in various initiatives will bring drastic improvement in the society. Women's empowerment and achieving gender equality helps society to ensure the sustainable development of a country. Skill development is a key to improve employability and income-earning opportunities towards enhancing sustainable development for women. With this thought, Dr. Chandramma Sagar Centre for Women Empowerment and Skills Training (DC - WEST) was established and aims at empowering women and helps to make them independent in all aspects from mind, thought, rights and decisions. Our Institution has the practice of appreciating faculty without gender bias.

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

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

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

The campus is eco-friendly with well-maintained lush green lawns, trees, and flowering plants. There is an organized procedure for waste segregation and its disposal.

The solid waste is segregated at the source itself as dry or non-degradable and wet or biodegradable waste by placing coloured bins at various places and is dumped separately. Dry wastes such as plastics, and metals are disposed of to the scrap vendors for recycling, and wet wastes collected from canteens, and other places are disposed of in city corporation lorries.

The liquid wastes are treated in a wastewater treatment plant (STP) and the treated water is used for flush toilets and gardening purposes on campus. The recycled water is used for gardening /horticulture. The EDP verifies non-functional Electronic Systems and equipment, and salvageable parts are reused in other defective systems and are restored to working condition. These computers and equipment are re-used. The remaining parts of the equipment are outsourced through vendors as scrap material for further e-waste management. The collected rainwater is used for lawns and gardens. Water quality will be tested before reuse. Chemical wastes generated are minimal and are further diluted before letting into the sink.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View File</a>
Geotagged photographs of the facilities	<a href="#">View File</a>
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
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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 vehicles**
- 3. Pedestrian-friendly pathways**

A. Any 4 or All of the above

<b>4. Ban on use of plastic</b>	
<b>5. Landscaping</b>	
File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>
<b>7.1.6 - Quality audits on environment and energy undertaken by the institution</b>	
<b>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</b>	<b>A. Any 4 or all of the above</b>
<ol style="list-style-type: none"> <li><b>1. Green audit</b></li> <li><b>2. Energy audit</b></li> <li><b>3. Environment audit</b></li> <li><b>4. Clean and green campus recognitions/awards</b></li> <li><b>5. Beyond the campus environmental promotional activities</b></li> </ol>	
File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>
<b>7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities:</b>	<b>A. Any 4 or all of the above</b>

accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
Policy documents and brochures on the support to be provided	<a href="#">View File</a>
Details of the software procured for providing assistance	<a href="#">View File</a>
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, socio-economic and other diversities (within a maximum of 200 words).

DSCE provides immense support to co-curricular activities and the performing arts. Different activities are conducted with specific themes in order to develop an inclusive environment in the campus. The majority of these activities are conducted through the Centre for Performing Arts (CPA) -a cultural wing of the college and the National Service Scheme (NSS) unit of the college. Through these divisions, different activities are organized to build communal socio-economic harmony in society.

Cultural activities have been a major part of the college's cultural journey, along with many other celebrations, including festivities for Kannada Rajyotsava, Ganesh Chaturthi, Women's Day, Founder's Day, and many more. Various activities were conducted under the NSS wing to serve the community through sustained interaction.

The academic year begins with the Induction Program for the freshmen, which helps them to know their strengths, work on improving interpersonal relations amongst fellow classmates and introduce them to the various cultural teams. This is followed by Talent's Day, a stage to showcase their flair for the Performing Arts.

Every year ethnic day is celebrated in the college, and students



and staff showcase their cultural heritage by wearing ethnic dresses to promote cultural and linguistic integrity.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>

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

The autonomous engineering curriculum includes a course on the Constitution of India and Professional Ethics. This course helps to create awareness among students about rights, duties, responsibilities, values, and professional ethics. The Universal Human Values program is conducted for first-year students as part of an Induction program to inculcate values and ethics in students to be responsible citizens. Student clubs are also involved in various activities working in association with government and private organizations for the betterment of nature. All the student project reports and publications are compulsorily subjected to a plagiarism check as part of the ethical practice. Indian Red Cross Society and National Service Scheme (NSS) organize activities that make the students socially responsible citizens. Visits to orphanages and old age homes are arranged so that the students understand social issues and problems and help the needy by providing the necessary things. Charity events are organized regularly to support poor and needy sections of society. The institution arranged social activities such as respect the road line, Induction Program, a talk on self-management, and world no tobacco day.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this**

A. All of the above

**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 Annual awareness programmes on the Code of Conduct are organized**

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 programmes, etc. in support of the claims	<a href="#">View File</a>
Any other relevant information	No File Uploaded

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

DSCE celebrates days and events of regional, national, international importance regularly. Republic Day, Independence Day, World Food Day, World Water Day, Youth Day. Founder's Day is celebrated at Dayananda Sagar Institutions to pay homage to the great visionary founder Late. Sri Dayananda Sagar. Kannada Rajyotsava is celebrated in the college. Ethnic Day students from different cultural, regional, linguistic, communal, and socioeconomic backgrounds, actively participate in the college level Ethnic Day. International Women's Day is celebrated under the aegis of Dr. Chandramma Sagar Center for Women Empowerment and Skills Training (DCWEST) to honour womanhood and acknowledge all women in the world for making this world a better place for everyone to live in. Yoga day is celebrated every year to spread the message about the importance of Yoga for better health and to encourage students and faculty to practice Yoga for stress free life. Teachers Day is celebrated in the institution in memory of Dr. Sarvapally Radhakrishnan. Ganesh Chaturthi is celebrated annually. Secretary, Principal, staff and students take part in the worship program to seek the blessings of lord Ganesh. Engineers Day is celebrated every year to pay tribute to Sir Mokshagundam Viswesvaraya.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Best practices are an excellent way to improve the performance and productivity of an organization, and help organizations fill knowledge gaps, improve efficiency, encourage leadership. DSCE is following two best practices :

### 1) Mentor system :

The goal of the proctor system is to implement a system that helps in the overall development of the student during his/her stay in the college. The system also aims to keep the parents/guardians informed about the academic progress of their children on a regular basis helping them to guide their wards in the right direction. This system has been introduced to establish a better and effective student-teacher relationship and guide the students in Academic matters. Each teacher will be allotted with few students and they take care of them as Proctors.

### 2) Project open day

The goal of project open day is to facilitate students to showcase their technical capabilities and innovation. It also aims at exhibiting student's ability to find solutions for the real world problems. The practice has been introduced to showcase the presentation skills of the students and their flair for research. It also encourages students to participate in inter disciplinary activities such as research, funded and government projects

File Description	Documents
Best practices in the Institutional website	<a href="https://www.dsce.edu.in/images/Pdf/best_practices2.pdf">https://www.dsce.edu.in/images/Pdf/best_practices2.pdf</a>
Any other relevant information	<a href="https://www.dsce.edu.in/images/Pdf/best_practices1.pdf">https://www.dsce.edu.in/images/Pdf/best_practices1.pdf</a>

### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The college has a distinctive unique approach of industry institute interaction that is "Engineering conclave" for self-augmentation. It presents an opportunity for academicians, researchers and engineers to come together and provide meaningful solutions to make education more productive for students and helps bridge the skill gap.

#### Objectives

- 1.To fine tune the syllabus to meet the industry requirements
- 2.To understand industry expectations and scale up further
- 3.To understand and update with the changing industry practices
- 4.To bridge the skill gap

During the Engineering Conclave, an expert from the industry along with the faculty and Head of the Department (HOD) will discuss the existing syllabus of different courses and fine tune as per the requirements of the industry.

First year departments discuss the suggestions with core branches to modify the syllabus accordingly as per their requirement. Syllabus is modified to make it more application oriented so as to be useful for the students to be Industry ready. The Modified Scheme and Syllabus along with the suggestions by the Industry Conclave is presented by the HOD in the Board of Studies (BOS) meeting for approval. A systematic approach on syllabus updating through Engineering Conclave can create Industry ready students for good placements.

File Description	Documents
Appropriate link in the institutional website	<a href="https://www.dsce.edu.in/images/Pdf/institutional_distinctiveness.pdf">https://www.dsce.edu.in/images/Pdf/institutional_distinctiveness.pdf</a>
Any other relevant information	No File Uploaded

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

To obtain higher NIRF Ranking.

To Increase faculty publications, encouraging students to write project proposals and publications

To submit proposals to funding agencies for Research projects

To modernize the curriculum to suit NEP

Up-gradation of Labsto meet the requirements of current and advanced technology.

Developing the Skills of students by organizing a higher number of technical training programs.

To better industry academic interface so that there is more corporate participation in academics.

Organizing FDP, Orientation programs for staff on NEP.

Addition of new Engineering programs [BE-IOT,BlockChain Technology, BE-Robotics & AI]