



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	DAYANANDA SAGAR COLLEGE OF ENGINEERING (AUTONOMOUS)
Name of the head of the Institution	Dr. C P S Prakash
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08042161753
Mobile no.	9448667198
Registered Email	ppl-dsce@dayanandasagar.edu
Alternate Email	iqac@dayanandasagar.edu
Address	Dayananda Sagar College of Engineering, Shavige Malleswara Hills, Ks Layout
City/Town	Bengaluru
State/UT	Karnataka
Pincode	560078

2. Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)		12-Feb-2015			
Type of Institution		Co-education			
Location		Urban			
Financial Status		private			
Name of the IQAC co-ordinator/Director		Dr. Ravishankar R			
Phone no/Alternate Phone no.		08042161740			
Mobile no.		9448327476			
Registered Email		iqac@dayanandasagar.edu			
Alternate Email		hod-chml@dayanandasagar.edu			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		https://www.dsce.edu.in/iqac-report-2018-19			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		https://www.dsce.edu.in/calendar-of-events-2020-odd-semester			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.42	2016	11-Jul-2016	10-Jul-2021
6. Date of Establishment of IQAC			21-Dec-2016		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries		

NBA	09-Aug-2019 15	120
NIRF	16-Dec-2019 2	6000
No Files Uploaded !!!		

8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
DSCE	Scientific and Industrial Research Organization	DSIR	2018 1095	0
DSCE	Research Institution	DSIR	2018 1095	0
BioTechnology	BTFS-BiSEC	GOK	2011 3650	15000000
Medical Electronics	MCIT	GOI	2015 1095	7000000
View File				

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

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

3

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

1. Ind Conclave, 2. Syllabus upgradation. 3. NIRF, 4. ISO audit

No Files Uploaded !!!

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

Plan of Action	Achievements/Outcomes
<p>Syllabus Upgradation: Being autonomous Institution, DSCE is exercising its opportunity to upgrade the syllabus inline with industry requirement. As part of this since three years our syllabus is sent to industry experts and their suggestion is sought</p>	<p>All departments have invited one member each from reputed industry to vet the respective syllabus in March.</p>
<p>MOOCs: DSCE is giving emphasis for continuous learning and beyond the syllabus learning. College encourages faculty and students to use online platforms for MOOCs like Course era, Swayam, NPTEL etc.</p>	<p>Faculty and students of all departments have taken up MOOCs. Two credits are also earmarked for such MOOCs. Students in consultation with course instructor and proctors will take up relevant courses available and produce certificate to avail the credits.</p>
<p>FDP and Workshops: Regular upskilling is essential for faculty to be in line with technology evolution. So all the departments are encouraged and supported to conduct and attend the work shops in the topic identified.</p>	<p>Most departments have conducted FDP and workshops</p>
<p>ISO audit</p>	<p>ISO internal audit conducted in July, Aug</p>
<p>Industry Interaction: From last two years, DSCE is getting recognized in AICTECII survey.</p>	<p>In many departments through Industry interaction, specialized lab and training facilities established. To mention a few: Five departments have signed MOUs i) Toyota center of excellence, where in engines are made available to students for training. ii) Bosch proficiency center: Certification programme on advanced automotive technology is being made available to the students. iii) Auto Desk Training Center: Department of ME in association with Auto Desk provide training in various auto desk products. iv) Center of Ophthalmic Imaging Instrumentation Lab in collaboration with School of Optometry, Indiana University and Sankara Nethralaya, Chennai. The objective of the project is to secure funding to establish a center of excellence in Bio Medical Engineering with a focus on applications to ophthalmology and vision science.</p>

[View File](#)

14. Whether AQAR was placed before statutory body ?

No

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	31-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Yes, Institution has its own management information system in the name of EGovernance. This E governance has its own server maintained by IT team of DSCE and there will be one or two coordinator from each department to get in contact with IT team. Department coordinator creates the student list for each courses. Each faculty will have username and password to login and it is used to fill the lesson plan, to mark the attendance of each class, to enter the CIA marks and proctor meetings. Also E governance sends the SMS to students and parents about the attendance and IA marks on regular basis.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	AE	AERONAUTICAL ENGINEERING	18/02/2019
BE	AU	AUTOMOBILE ENGINEERING	25/02/2019
BE	BT	Biotechnology	23/02/2019
BE	CSE	Computer Science	16/02/2019
Mtech	SCS	Computer Science & Engineering	16/02/2019
BE	CV	Civil Engineering	23/02/2019
Mtech	CSE	Structural Engineering	23/02/2019

BE	CH	CHEMICAL ENGINEERING	23/02/2019
BE	CTM	CONSTRUCTION TECHNOLOGY & MANAGEMENT	23/02/2019
Mtech	CHT	HIGHWAY TECHNOLOGY	23/02/2019
View File			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	AERONAUTICAL ENGINEERING	18/02/2019	MATLAB FOR SCIENTIFIC COMPUTING 19AE3DLMSC	18/02/2019
BE	Automobile Engineering	25/02/2019	Emerging Technologies	25/02/2019
BE	Automobile Engineering	25/02/2019	Hybrid Vehicles	25/02/2019
BE	Automobile Engineering	25/02/2019	Fundamentals of Automobile Engineering	25/02/2019
BE	BIOTECHNOLOGY	23/02/2019	Emerging Technologies 17BT5DCEMT	23/02/2019
BE	BIOTECHNOLOGY	23/02/2019	Engineering Economics - 17HS6ICEEM	23/02/2019
BE	BIOTECHNOLOGY	23/02/2019	Fluid Flow Operations - 18BT3DCFFO	23/02/2019
BE	COMPUTER SCIENCE AND ENGINEERING	16/02/2019	Management and Entrepreneurship-18HS5ICMEP	16/02/2019
Mtech	Computer Networks & Engineering	16/02/2019	Internet of Things-18SCS33	16/02/2019
Mtech	Computer Networks & Engineering	16/02/2019	Machine Learning Techniques(18SCS31)	16/02/2019
View File				

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
No Data Entered/Not Applicable !!!		

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Emerging Technologies- Aeronautical	18/02/2019	72
Computer Aided Aircraft Drawing-Aeronautical	18/02/2019	59
Emerging Technologies- Civil	18/02/2019	180
Automotive Electronics	25/02/2020	60
Emerging Technolgies- Automobile	25/02/2019	59
Computer aided machine drawing-Automobile	25/02/2019	59
Emerging Technologies- Chemical	23/02/2019	34
Management Entrepreneurship	23/02/2019	42
Emerging Technologies - Biotech	23/02/2019	42
Fluid Flow Operations	23/02/2019	49
View File		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Aeronautical Engineering	64
BE	Automobile Engineering	50
BE	Bio Technology	44
BE	Chemical Engineering	33
BE	Civil Engineering	187
BE	Computer Science Engineering	110
BE	Construction Technology and Management	52
BE	Electrical & Electronics Engineering	130
BE	Electronics & Instrumentation Engineering	50

BE	Electronics & Telecommunication Engineering	117
View File		

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>Institute has designed the feedback formats for the stakeholders. The feedback form comprises of Faculty feedback, Alumni feedback, Student feedback, Course end survey, Graduate exit survey. Parents Feedback, Employer feedback, Industry feedback etc. Faculty feedback from the students for the respective course is taken twice in a semester on various TLP aspects and it is analysed by the HODs and corrective measures if any, are informed to the respective faculties for further improvements. Course end survey are taken from the students after the completion of the course. Any improvement in terms of TLP are discussed in the module coordinator meeting and corrective measures have been taken if required. Graduate exit feedbacks and infrastructural facilities feedback are taken from the final year students at the end of the programme to improve the Syllabus / TLP / Lab facilities / infrastructure facilities if any. The feedback so obtained is analysed for further improvement. Feedback from the parents are taken by interacting with them during Parent Teacher Meet. Feedback is taken from alumni for suggestions or improvements in the curriculum/ TLP etc.. Feedback from faculties are also taken for their suggestions in syllabus revision/ introduction of the new courses and its implementation. Feedback from the employer / Industry are taken once in a year, for improvement of the syllabus and introduction of the new courses required as per the new industrial requirements. Institute has also installed a suggestion box which is accessible to all the stake holders so that they can give their feedback/ suggestions for improvements, if any. All the feedback / suggestions collected are summarized and presented before the IQAC and BOS for the implementation.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Aeronautical	60	60	59
BE	Automobile	60	60	41
BE	Bio- Technology	60	50	39
BE	Chemical	60	40	40
BE	Civil	180	170	144

BE	Computer Science Engineering	240	256	256
BE	Construction Technology	60	15	15
BE	Electronics and Communication Engineering	240	240	205
BE	Electrical Engineering	120	106	106
BE	Electronics & Instrumentation Engineering	60	49	49
View File				

2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	5498	638	269	48	19

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
392	392	8	95	42	6

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

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

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

The institute has Proctorial System under which faculty member is called as proctor and is assigned a group of students from each year for whom the faculty is the counselor/mentor/guide and care taker. The faculty counsels regarding academic, personal and other problems faced by the student by conducting proctor meeting every month. Maintenance of proctor diary which includes students report card (internal marks and attendance in each test conducted, SEE results and overall progress of the students is monitored.), medical certificate if any, certificate of extra-curricular activities etc. are collected and other documents are maintained by the respective proctors. A progress report regarding the performance of the student in the IA test and attendance in the ongoing semester is periodically sent to the parents.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
7368	392	1:19

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
388	355	33	37	117

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Rudresh M ,International level	Assistant Professor	Young Scientist Award 2019, by MINDAURA LLC USA, Educational Excellence Awards
2019	Dr. H K Ramaraju,National Level	Professor	Chartered Engineer (India), Institution of Engineers, Fellowship by Institution of Engineers, 51st IWWA Annual Convention - Indian water works association.
2019	Mrs. Shravya A R	Assistant Professor	Senior Research Fellow under DRDO
2020	Dr P Vimala	Associate Professor	Outstanding Scientist Award received from VDGGOOD Professional Association.
2020	Dr K P Shashikala	Associate Professor	Lifetime achievement in Engineering Award from Venus international Women Award.
2019	Vidya.M	Assistant Professor	Silver Elite from NPTEL
2019	Dr.A.M.Nagaraj	Associate Professor	Silver Elite from NPTEL
2019	Dr.Dhanalakshmi.R	Professor	Silver Elite from NPTEL
2019	Mr Nagarathna	Assistant Professor	Silver Elite from NPTEL
2019	Dr. Srividya B V	Associate Professor	Silver Elite from NPTEL, Best Paper Award, Springer Indexed Conference.

[View File](#)

2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	AE	I Semester	31/12/2019	19/01/2020
BE	AE	III Semester	31/12/2019	19/01/2020
BE	AE	V Semester	31/12/2019	19/01/2020
BE	AE	VII Semester	31/12/2019	19/01/2020
BE	AE	VIII Semester	20/08/2020	14/09/2020
BE	AU	I Semester	31/12/2019	19/01/2020
BE	AU	III Semester	31/12/2019	19/01/2020
BE	AU	V Semester	31/12/2019	19/01/2020
BE	AU	VII Semester	31/12/2019	19/01/2020
BE	AU	VIII Semester	20/08/2020	14/09/2020

[View File](#)

2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nil	1621	0

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.dsce.edu.in>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
ET	BE	Electronics Telecommunication Engineering	117	116	99.14
EE	BE	Electrical & Electronics Engineering	130	130	100
EC	BE	Electronics & Communication Engineering	231	230	99

		ion Engineering			
CV	BE	Civil Engineering	191	191	100
CT	BE	Construction Technology Management Engineering	52	52	100
CS	BE	Computer Science Engineering	224	223	99.55
CH	BE	Chemical Engineering	33	32	96.7
BT	BE	Biotechnol ogy Engineering	44	43	99.7
AU	BE	Automobile Engineering	59	59	100
AE	BE	Aeronautical Engineering	64	64	100
View File					

2.7 – Student Satisfaction Survey

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

[_https://www.dsce.edu.in/about/committees/igac_](https://www.dsce.edu.in/about/committees/igac)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

No

No file uploaded.

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. Kumar K M	Young researcher award	28/02/2019	BRULAC,Dental Research cell (DRC), Saveetha Dental college Hospital, SIMATS, Chennai, India and Innoscience Research, Malaysia

[View File](#)

3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Students Research Projects (Other than compulsory by the University)	180	KSCST	1.1	0.99
Major Projects	730	KIOCL	19.96	3.5
Major Projects	240	VTU TEQIP 3	1.5	1.5
Major Projects	1095	ISRO	32.28	7.9
Major Projects	1095	AICTE	15.21	14.98
Major Projects	1095	AICTE	11.4	5.7
Major Projects	1095	DRDO	17.1	3.45
Major Projects	730	VGST KFIST	20	20
Major Projects	365	VGST	5	5
View File				

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0.082

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
BOSCH Rexroth Workshop	Automobile	07/03/2020
3D Printing Workshop	Automobile	02/04/2020
BOSCH-DSCE JCP on Auto Electrical Training	Automobile	03/12/2019
Google Cloud Faculty Readiness Program	CS	27/09/2019
Entrepreneurship Awareness Program	Civil	25/02/2020
Technologies - ICT, Automation and Power Electronics Applications in Integration of Renewable Energy Sources	EEE	20/01/2020

and Smart Grid		
Workshop on Machine Learning using Python	MECH	08/11/2019
Workshop on six sigma-Green belt program	MECH	05/11/2019
Workshop on e - Mobility Charging Infrastructure	MECH	27/02/2020
SPSS Workshop	MBA	23/12/2019
CIL Training Program	MBA	12/11/2019
Battle of the Brains (Quiz Competition)	MBA	08/11/2019
Python Workshop	MBA	07/06/2019
Workshop on R Programming	MBA	25/06/2019
Writing Lab-Best Blogger Even	MBA	08/06/2020
Growing Integration Layer (GIL) Strategy for Functional and/ or Bio-Active Ceramic Coating on Metallic Alloy	Chemistry	17/01/2020
Microwave Myths	Chemistry	17/01/2020
Materials Related to Technological Advances and Applications	Chemistry	08/02/2020
VLSI Trends in India	Chemistry	15/02/2020
Industry Conclave	Chemistry	11/03/2020
Advances in Materials, Ceramics Engineering Science	Chemistry	17/01/2020
Effective Communication in English and Basic Computer Skills	Humanities	17/06/2019

[View File](#)

3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Research	Ashik S V	Prajavani	01/01/2020	Research

[View File](#)

3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
DSCE	Mr. Yogesh Bhalla	DSCE	PRAG ITech	Innovation Using GPS/GPRS Technologies	04/01/2019

DSCE	Dr. Arbind Gupta	DSCE	HeART Health Technologies Pvt.Ltd	AI drive medical imaging Analysis	16/09/2019
DSCE	Ms. Roopashri	DSCE	Digital Hive Plus Solutions	Digital Marketing	25/11/2019
View File					

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Aeronautical Engineering	2
Automobile Engineering	1
Biotech	3
Mechanical Engineering	3
Medical Electronics	1
IEM	1
Physics	2
Mathematics	1
Telecom	1
EEE	1
Civil Engineering	2
CSE	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Automobile	11	1
International	Biotechnology	3	2
International	Industrial Engineering and Management	4	1
International	Chemistry	17	2
International	Physics	10	2
International	Computer Science	36	4
International	MCA	4	5
View File			

3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Telecom	3
Maths	7
Physics	6

Chemistry	2
IEM	1
Medical Electronics	8
Mechanical	7
Biotech	2
Automobile Engineering	10
Aeronautical Engineering	1
View File	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Indian Patent	Published	201841009838	20/09/2019
Indian Patent	Published	201921005025	24/06/2019
Indian Patent	Published	E-1/447739/2019	11/06/2019
View File			

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
I-V characteristics and Room Temperature Hall Measurement of CdTe nano rods.	Mrs. Meera R Gumaste	IOP Science	2020	1	Dayananda Sagar College of Engineering	1
Facile synthesis of perovskite lanthanum aluminate and its green reduced graphene oxide composite for high performance super capacitors.	Dr. Priya A Hoskeri	Journal of Electro analytical Chemistry	2020	2	Dayananda Sagar College of Engineering	5
Enhanced Sunlight driven photocatalytic performance	KS Anantharaju	Arabian Journal of Chemistry	2020	5	Dayananda Sagar College of Engineering	4

nce and visualization of latent fingerprint by green mediated ZnFe ₂ O ₄ -RGO nanocomposite					g	
Effect of annealing on vacuum evaporated zinc phthalocyanine thin films.	Dr. C M Joseph	International Journal of Scientific Research and Review	2020	1	Dayananda Sagar College of Engineering	1
Trend Analysis of Rainfall, rainy days and drought: a case study of Ghataprabha River Basin, India	Dr. Abhishek Pathak	Modelling Systems and Environment (Springer)	2020	5	Dayananda Sagar College of Engineering	5

[View File](#)

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Barium titanate nanostructures for photocatalytic hydrogen generation and photodegradation of chemical pollutants	K V Karthik	Journal of Materials Science: Materials in Electronics Springer Nature	2019	4	18	Dayananda Sagar College of Engineering
Facile synthesis, characterization, nucleic acid inter	M Sennappan	Journal of Molecular Structure	2019	3	5	Dayananda Sagar College of Engineering

action and photoluminescent properties of (E)-furan-2-yl (2-(2-hydroxybenzylidene)hydrazinyl)methaniminium and its Mn ...						
Facile synthesis of perovskite lanthanum aluminate and its green reduced graphene oxide composite for high performance super capacitors.	Dr. Priya A Hoskeri	Journal of Electro analytical Chemistry	2020	2	5	Dayananda Sagar College of Engineering
Trend Analysis of Rainfall, rainy days and drought: a case study of Ghataprabha River Basin, India	Dr. Abhishek Pathak	Modelling Systems and Environment (Springer)	2020	3	5	Dayananda Sagar College of Engineering
Comparative investigation on effect of fibers in the flexural response of post tensioned beam	R. Shanthi Venkateshwar	Asian Journal of Civil Engineering	2019	2	1	Dayananda Sagar College of Engineering
View File						

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

Number of Faculty	International	National	State	Local

Attended/Seminars/Workshops	112	118	49	88
View File				

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Automobile	BOSCH-DSCE JCP on Auto Electrical Training	BOSCH Limited, India	28320
Mechanical	Implant Flexible material 3D printed Models	Machenn Innovations, Coimbatore	2448
Mechanical	Quadcopter 3D printed model	Machenn Innovations, Coimbatore	2190
Mechanical	BMSCE	BMSCE	2000
CIVIL	KSCE	KSCE	6500
CIVIL	M/s Anusaar Engg	M/s Anusaar Engg	2000
CSE	Machine Learning Project	Cuspera	20000
View File			

3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
CSE	Student Projects	Cuspera	20000	2
View File				

3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Youth Day Celebrations	NSS	6	108
Voluntary Blood Donation Camp	NSS	8	30
Flood relief collection drive for KARNATAKA	NSS	9	74
View File			

3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
ISTE BEST STUDENT AWARD	BEST STUDENT OF THE CHAPTER AWARD	Indian Society for Technical Education, Karnataka State Section(ISTE)	1
Hackathon	Smart India Hackathon	Govt. of India	6
Sports	Swimming Event - Winner	VTU	1
View File			

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Awareness	NSS UNIT DSCE	Youth Day Celebrations	1	49
Spandana	Govt. Higher Primary School [GHPS], Hannedoddi, Kolaganahalli post, Kanakapura Taluk, Ramanagaram District, Karnataka - 562112	Community Service	2	53
NSS scheme	Blood Donation Camp organized by the Indian Red Karnataka State Branch in association with Lions Club-Bengaluru	Blood Donation Camp	1	26
View File				

3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Research Collaboration	PhD student	CSIR	365
View File			

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Internship	BSNL, Robert Bosch, ISRO, IISC, BHEL,	01/08/2019	31/07/2020	10
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Toyota Kirloskar Motors Pvt. Ltd.	15/02/2019	MOU signed between TOYOTA and Dayanandasagar College of Engineering on 15.02.2019 for promoting industry-institution activities for students.	54
KASSIA	15/02/2019	DSCE and Karnataka Small Scale Industry Association (KASSIA) signed an MOU on 15-02-2019 for encouraging start up and entrepreneurship activities for students.	64
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
466830880	526924935

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing

Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
No file uploaded.	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Libsys with RFID Technology	Fully	4	2008

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	96434	49181340	511	260610	96945	49441950
Reference Books	37500	19125000	300	153000	37800	19278000
e-Books	16200	820138	21113	1068862	37313	1889000
Journals	131	411323	Nill	Nill	131	411323
e-Journals	7400	1889000	Nill	Nill	7400	1889000
Digital Database	9	1889000	Nill	Nill	9	1889000
CD & Video	3771	188550	68	3400	3839	191950
Weeding (hard & soft)	4259	1277700	233	69900	4492	1347600
Others(s pecify)	1	1889000	Nill	Nill	1	1889000

No file uploaded.

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
---------------------	--------------------	---------------------------------------	-----------------------------

No Data Entered/Not Applicable !!!

No file uploaded.

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1469	47	1469	0	0	30	21	100	0
Added	126	0	126	0	0	1	0	0	0
Total	1595	47	1595	0	0	31	21	100	0

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Virtual Tutorial Lab	http://virtual-lab-dsce.herokuapp.com/
Instruction Manuals	https://www.slideshare.net/hareeshang
Video Lectures	https://hareeshang.com/
E-notes in Civil Engineering	https://www.dsce.edu.in/images/Civil/department/E-Notes_Civil_engg.pdf
Virtual lab videos - Civil	https://www.dsce.edu.in/images/Civil/department/Videos_Link_1.pdf
Egovernance smart campus software	http://www.mydsi.org/

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
130515880	258838985	7100000	12708780

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

Dayananda Sagar College of Engineering has built up a reputation of higher academic standards with Wi-Fi enable campus and solar water facilities for boys and girls hostels in the campus. Rainwater harvesting system is used in the Dayananda Sagar College of Engineering campus also sequential batch reactors for recycling and reuse of grey water for gardens. Students should follow the prescribed dress code while in the campus and also have to wear ID card issued by the college. Class rooms are provided with LCD projectors and all the laboratories satisfies AICTE norms provided with required software's and

testing equipments with excellent centers for research and consultancy. The Library facilities here are state-of-the-art following the latest automated RFID technology and Dayananda Sagar College of Engineering is the first Private sector Engineering College in India to install this system. This latest system is user friendly and provides access to any book available in few minutes. The Library has a huge collection of over a lakh Books E-books, along with CDs and DVDs apart from latest Journals and Periodicals. Dayananda Sagar College of Engineering students are allowed to showcase their vivid talents in the form of dance, music, art, literature, theatre, fashion and management. We at the centre for performing arts also known as the CPA make sure that the students are given an equal chance and opportunity to come and showcase their talent and thus we have individual teams and auditions are conducted for students at the start of every New Year. The CPA is the responsible for conducting the cultural and managerial events for Dayananda Sagar Institutions. The most notable teams representing CPA 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. We also spread our wings over the department of art and literature thus we have our own Art team and literary team. The CPA has a separate Media team taking care of Photography, Videography and Design that covers all the events happening in the college. The Design team holds the responsibility of coming up with the most prime and superlative designs for the promotions of art and culture. Dayananda Sagar College of Engineering encourages students to explore their latent talents by providing world class sports and games facilities with yoga and meditation techniques to the newly joined students The commitment also extends in conducting regular training sessions for the faculty members and the staff of Dayananda Sagar Institutions and Dayananda Sagar University at the meditation centre, DSCE, Kumaraswamy Layout, Bangalore. During the COVID-19 pandemic, they have conducted many online sessions on yoga meditation for the benefit of students as well as staff. National Service Scheme (NSS) is conducting various services in the field of blood donation camp and help orphan and other social works. Dayananda Sagar College of Engineering clubs also facilitate photography club, Nature club, Aeronautical Society of India and Team Acris.

<https://www.dsce.edu.in/>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Shubha Putela Memorial Scholarships, Srinivas Rao and Kamalamma Schlorships	12	90000
Financial Support from Other Sources			
a) National	Dept of Backward Classes Welfare, OBC, SC, ST	1986	54093737
b) International	NIL	Nil	0

[View File](#)

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Solid Works Training	02/03/2020	26	Best Engineering Aids Consultancies Pvt Ltd (BEACON)
Basic STK Software	05/06/2020	25	Basic STK Software Training at Tvaska Technologies
Auto Desk Inventor	26/09/2020	60	Fusion 360 Basic training
Workshop on chatbot design	12/10/2019	38	Wallmart E Commerce
Financial fitness workshop	21/05/2019	120	DSCE
Technical training on Data Science Machining	01/07/2019	55	Enhance Knowledge Pvt. Ltd.
Personal Effectiveness	25/07/2019	1520	CIL, DSCE
SOFT SKILLS and TECHNICAL COMPETITION FEST	22/08/2019	68	ATHARVA
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2020	NPTEL ONLINE COURSE AND GATE PREPARATION, Preparation for Higher studies and competitive exams	1169	696	2	1169
View File					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

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

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Accenture, IBM, TCS, HONEYWELL Others	16870	1106	Dorice Labs, obalt labs Inc Others	46	15
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	7	BE	Mechanical Engg	Loughborough Univeristy, UK Bangalore University, India University of Hamberg, US Chalmers University, Sweden	M S, MBA, MSc
2020	15	BE	Electronics Communication Engg	University Stuttgart, Germany Northeastern University, Boston University of Texas, Dallas Arizona State University	M S
2020	6	BE	Construction Technology Management	VTU EXTN CENTER IR RASTA ROAD INSTITUTE	M.Tech
2020	16	BE	B. E BIOTECHNOLOGY	Manipal Academy of Higher Education (MAHE) , University of South California (USA)	M.Tech, M S
2020	2	BE	Automobile Engineering	Coventry University,	M S

				Michigan Univeristy	
2020	5	BE	BE. Aeronautical Engg	Mainland Aviation College, RMIT University, IIT kanpur	Engineering with Management (Intelligent Manufacturin g) (MSc), Aviation
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	24
CAT	5
GRE	29
Any Other	1
Any Other	42
TOFEL	21
Civil Services	1
Any Other	3
Any Other	4
View File	

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

Activity	Level	Number of Participants
Induction Program for I year students	UG	500
Founders day	UG	200
SPECTRUM WEEK-cultural event	UG	150
Photography contest 2019	UG	20
Indoor sports Event	UG	75
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Elite Miss India 2020, Nachley	National	22	15	1DS16AE0 48, 1DS19BT029	ShriyaBh at,

2019
Others

[View File](#)

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

Students being the main stake holders are encouraged to be a part of institutional development activities. Their feedback is sought on various important matters such as syllabus, curriculum and also technical activities. They are continuously involved in all the activities as mentors, conducting committee and coordination committees. The institute has various active student committees to carry out various Academic and cultural activities. one among them is: Established in 2010, Genesis is a pioneer Student Body in ISE, DSCE. Genesis is a platform to showcase students' talent and nurture it. Genesis has four wings: • Technical: responsible for organizing technical related activities • Cultural: for organizing cultural activities • Sports: for organizing various sports activities • Social: organizing social services along with NSS team Genesis as a whole is a student community responsible for organizing and conducting various department events. Genesis inspires confidence. It inspires leadership. Genesis motivates the students to do better...to shine...to excel....

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

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 Office Bearers 1. Shri. Galiswamy, President 2. Dr. C P S Prakash, Vice President 3. Mr. M N Guruvenkatesh, Secretary 4. Dr. Ramesh Babu, Joint Secretary 5. Dr. Kiran S, Joint Secretary 6. Dr. Ravishankar R, Treasurer and other members A combined meet of all departments, Mega Alumni meet is conducted every year. Three distinguished Alumni are invited as guest, last year it was held on 28th December 2019 Alumni from the entire department attended the Mega Alumni meet. The alumnus actively participates in various departmental activities such as Placement, Invited talks, Guest lectures. Alumni involved in helping college for Industry Visits and Projects. The Annual Meet emphasized on creating a special bond between the passed out graduates, existing students, faculty and the staff, and this was started off with 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. The Alumnus would be taken on a campus tour where they revisit the familiar places where they had studied. They would also visit the department laboratories and other departmental facilities. The staffs discuss recent progress and activities in the department and the college. They also interact with our students and come up with several suggestions to improve the departmental activities and progress of students.

5.4.2 – No. of registered Alumni:

6618

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

300000

5.4.4 – Meetings/activities organized by Alumni Association :

1. Mega Alumni Meet-2019 organized on 28th December-2019 2. Department of Aeronautical Engineering organizes a Guest Lecture on Higher studies and job opportunities for Aeronautical Engineers in Abroad by Ms. Ramya Menon M R, CAE engineer, Siemens Industrial Turbomachinery AB, Sweden on 29th January 2020 3. Department of Aeronautical Engineering organizes a Webinar on Personality Development- How to Find Your Passion? By Mr. Deepesh Chhetri, International Speaker, Trainer Transformational Coach. On 20th June 2020 4. Department Automobile Engineering Alumni conducted Alumni meet on 28.12.2019 and 30-05-2020 discussed about the incorporation of new subjects to the branch and taken their feedback 5. Department of Chemical Engineering organizes an Invited Talk on "The Opportunities for Higher Studies in abroad for Chemical Engineering Students" by Ms. Vandana K V (2012-2016) on 4th November 2019 6. Department of Chemical Engineering organizes an Invited talk on "Importance of Process Simulation in Chemical Engineering" by Ms. Asha Shanthappa Banagiger, (2014-2018) Executive Engineer, Yokogawa India Ltd, Bangalore. On 23rd November 2019 7. Department of Chemical Engineering organizes a Webinar on " Expectations of Manufacturing industries from a fresh chemical engineer" by Mr. Naveen Kumar, (1996 Batch) Managing Director, SMK Petrochemicals India Pvt Ltd on 27th April 2020. 8. Department of Chemical Engineering organizes a Webinar on "Catch-up with students" by Mr. Adil Hamza Khan(2014-2018), Research Experimentalist , Shell R D. on 29th April 2020 9. Department of Chemical Engineering organizes a webinar on "Density Functional Theory (DFT) and its application in Material Science" by Mr. Keerthan R Rao, (Alumni 2012-16), Researcher at University of Kentucky, Lexington, United States on 8th May 2020 10. Department of Chemical Engineering organizes a webinar on "A Role of Engineer in a Large Scale Industry" by Mr. Lokesh Jeppu, DchE, BE (Chem) (Alumni 2011-2014) Assistant Manager - Dispersions, BASF on 9th May 2020 11. Department of Chemical Engineering organizes a webinar on "Industrial and Commercial Cooling Water Treatment" by Mr. Sampath Acharya, (Alumni 2007-2011) Sr. Service Engineer, Technical Chemical Service in Water Treatment, Culligan International (Emirates) LLC, on 15th May 2020 12. Department of Chemical Engineering organizes a webinar on "Light - Directed Development of Advanced Functional Materials" by Mr. Shreyas S Pathreker , (Alumnus 2011-2015) Research Scholar at Department of Biomedical Chemical Engineering , Syracuse University, NY on 28th May 2020 13. Department of Electronics Instrumentation Engineering Organizes a guest lecture of "Financial Planning through trading Investment" by Mr. Gnaneshwaran V from Wealthstep Research, Bangalore on 21st September 2019

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Vision of the institution is "To impart quality technical education with a focus on Research and Innovation emphasizing on Development of Sustainable and Inclusive Technology for the benefit of society This will be supported with mission statements: o To provide an environment that enhances creativity and Innovation in pursuit of Excellence. o To nurture teamwork in order to transform individuals as responsible leaders and entrepreneurs. o To train the students to the changing technical scenario and make them to understand the importance of Sustainable and Inclusive technologies. Being autonomous in nature, the departments follow decentralization and participative management methods in every activity. Leadership in different levels, starting from lab instructors to Principal and governing council members make the decentralization possible. At the same time top management monitors the work done in individual level and makes decision to achieve the vision of the

institute. Leadership is provided utmost importance at all the levels and is encouraged among faculty and students. There are several committees which take care of all the activities from class monitoring to exam conduction. Quality technical education, research and innovation is ensured by constituting different bodies in the institution, which direct, monitors and encourages the staff working towards the goal. The institution has a competent secretarial constitution. The Chairman, Vice Chairman, Secretary, Managing Trust members and other members of the trust form the top management. Executive Committee Meeting will be held by Vice chairman with the Principal to review the academic administration, research and development, testing and consultancy services and any other agenda planned for the growth of the institution, every month in the college premises. Major policy decisions are being taken in such meetings. The Principal conducts weekly meetings with all the Heads of the departments regarding academic activities, following up of the academic calendar, students' progress, placement and training details, research and extension activities, industry interaction, consultancy assignments, alumni interaction etc., The Principal conducts monthly meetings with all the faculty members to discuss about the vision of the management and also motivate them for their continued good performance and contributions. The heads of the departments regularly conduct department meetings with all the members of the faculty. Inputs from faculty is considered to develop different activities and to achieve quality education The Internal Quality Assurance Cell ensures maintenance of the quality of the teaching learning process ensuring continuous improvement.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Industry Interaction / Collaboration	<p>The Institution always has a high focus on reaching out to our major stakeholders in Industry. The Institution always thrives towards establishing new interactions with the industry and collaborating with them for MOUs there by giving opportunities for students with conferences, workshops on the latest technologies, internships, projects, and placements. Industry interaction committee is in continuous dialogue with Industries, to name, NOKIA, NVidia Google causing long term involvements like university campus projects for these industries. These projects provide on-campus training by these companies, training on projects, and internships convertible to jobs. These engagements have proven to get our students industry ready and have increased the placement ratio of the college. These MOUs are giving opportunities for Research and Industry collaboration, Organization of joint events, conferences, seminars, symposiums, FDP, Publications, Patents, Project</p>

proposals, and revision of academic curriculum as per the requirements of Industry and academia.

Library, ICT and Physical Infrastructure / Instrumentation

The college has good infrastructure with a central Library divided into separate sections provided for reference service on three floors for UG/PG. E-resources are provided through the digital library for accessing various websites for publishing papers, downloading textbooks and reference books, etc. The College library has the latest automated RFID technology making the library task more user-friendly for students. The department has a library wherein the students and faculty can borrow books, use it as reference. Students, Faculty, Publishers have donated various books to the department library. Features of the Central Library: The central library of the institution 5650 sq. m Total seating capacity 800. Total number of books - 1, 34,745 Total free access e-journals - 7,400 The library includes Digital Library with modern facilities such as RFID and ICT. All the branches of engineering are well equipped with state of the art laboratories. Every department has computing facilities (hardware and software) with various software for the benefit of students, faculty, and research scholars. The Institution has provided ICT facilities in all the departments in which the classrooms and Computer labs are provided with LCD projectors for Multimedia presentations for delivering the lecture. The campus is Wi-Fi enabled with adequate computing facilities. The faculty and students make use of these facilities for enriching their domain knowledge. Further, elevators and restrooms are provided at appropriate places. The institution has provided the hostel facilities for both girls and boys within the campus.
<https://www.dsce.edu.in/library>

Examination and Evaluation

The institution has its own examination cell to conduct various exam activities such as Continuous Internal Assessments (CIE), Semester End Examinations (SEE), Makeup, and Fast track exams. Dates of all the examinations are published before the commencement of the semester through a

calendar of events. Squad committee selected monitors the conduction of CIA, lab exams, and SEE to prevent malpractice. In case any student is found guilty, the Committee formed by COE will take appropriate action as per norms. Final exam answer scripts are digitally evaluated online by the internal and external evaluators. Results are announced as per the Calendar of events with provision to apply for reevaluation. Continuous Internal Assessment (CIA), Assignment and selected Alternate Assessment Tools are basic parameters for assessing the academic progress of students. The department CIA coordinators frame the CIA timetable in line with the academic Calendar of Events. Students are given awareness about the pattern and evaluation scheme of the question paper to facilitate their preparation in advance. The department has a scrutinizing committee for the selection of appropriate CIA question papers and also checks for the application of Bloom's levels for the quality of the questions. Assignments, tutorials on application-based learning, and problem-solving also helps the students with the application aspect of the subject. Three CIAs are conducted as per the calendar of events. Internal assessments are carried out under the supervision of faculty assigned as room invigilator by CIA coordinators. The booklets are evaluated in a week from the date of the CIA test. Scheme and solutions to IA question papers are discussed with students in the subsequent classes after the CIA test for transparency in the evaluation and enhancing their preparedness for the semester end examination. Marks scored in CIA's are recorded and analysed to counsel the students in subsequent proctor's interactions, if necessary, to improve their academic performance.

<https://www.dsce.edu.in/exam-section>

Curriculum Development

The curriculum has been revised based on stakeholders inputs collected during Industry Conclave, Alumni meeting, Academic Council and BOS meeting. Industry Conclave is conducted every academic year providing a common platform for academicians, researchers engineers to discuss the industry-

academia gap and provide solutions by updating the curriculum to bridge the gap. Every year the departmental Board of Studies committee examines the present course contents and proposes for the changes. This is done by the feedback from all the stakeholders considering industrial needs. The Board of Studies comprises of eminent persons from various disciplines of engineering to give guidance on the curriculum. The committee also includes members from the industry and Alumni, working towards bridging the gap between academia and industry. The Academic Council monitors and guides the academic activities for sustained academic progress.

Teaching and Learning

Each department in the institute adopts a systematic methodology that includes the announcement of calendar of events, preparation of lesson plan and course material, continuous internal evaluation. The course plan is designed with keeping in mind the Outcome-based Education, MOOCs, Industry Visits, Roleplays, blended learning and flip classes, mini-projects. Innovative and Smart classroom teaching approaches are used to enhance the quality of Teaching and Learning Process. At the end of the previous semester, subjects will be allotted to each faculty so that faculties will get time to prepare course files. Course file covers lesson plan, lecture notes, a question bank, problem-based and application-based questions, FAQs, etc.

Research and Development

DSCE hosts 20 research centers affiliated with Visvesvaraya Technological University, Belagavi. The institution has state of the art research labs such as the Centre for Ophthalmic Imaging and Instrumentation lab COII (CSE). All the departments encourage their faculty to be actively involved in attending several conferences and contributing to the research through good publications, proposals, and grants. Along with the TLP, each faculty is encouraged to carry out the research work on their area of interest. Goal setting is encouraged amongst all faculty. Goals include their research in terms of publications in reputed journals/conferences/book chapters and

also to pursue Ph. D. Regular audit is conducted to motivate the faculty to achieve their mentioned goals. Faculty are encouraged to write proposals to private and government bodies such as DRDO, DST, and ISRO to receive grants, which can help the research progress. Collaborations with reputed Indian and foreign universities (Indiana University, Bloomington) are in place to aid the research growth. Memorandum of Understanding ("MoU") is signed between DCSE and various companies for mutual benefit, to enhance the quality of the educational experience for the students.

Human Resource Management

DSCE has a centralized Human Resources department to strengthen the faculty force which is the backbone of the whole academic system and also the administration personnel. HR department of institution hosts a lot of initiatives for the staff. The HR department has a well laid out the process for recruitment, performance appraisal, and promotions of the staff. This process incorporates feedback for the staff from the required stakeholders to decide on appraisals. It's the responsibility of the Human Resource Management department to provide a platform for the development programs for the in-house staff through well-known organizations. HR process includes following activities: Periodic calls for the staff positions, Experience and merit-based selection procedures, Induction programs for the new faculty/staff, Appraisals process at the right intervals of time, Good working environment and basic infrastructure, Good retaining measures.

Admission of Students

Our Institution is one of the top priorities of the engineering aspirant students at the national and global level. The campus houses more than 2000 students. The Institute strictly adheres to the norms of AICTE/ State Government and it's affiliating Visvesvaraya Technological University (VTU) for admitting students. Undergraduate Candidates admission to the Institute is through Common Entrance Test (CET) of Karnataka Examination Authority (KEA), Consortium of Medical, Engineering, and Dental

colleges of Karnataka (COMEDK) and Management Quota. Postgraduate students are admitted through PG CET and management quota. Seats allotted through counselling of KEA and COMEDK. Students are admitted to the institute as per the norms of VTU. Admitted students are taken care of through proper orientation and proctor system to guide them further.

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

E-governance area	Details
<p>Planning and Development</p>	<p>The college has an E-governance portal where most of the academic activities will be recorded. E-Governance maintains Course planning, department calendar of events, college calendar of events, time table (theory/lab), and schedule of the CIE test. The schedule is planned in advance before start of the semester and uploaded on to the e-governance portal so that the students exactly know what to do before planning their activity. The attendance and the portion covered are daily updated to the students and parents. The students proctor system is inbuilt within the system which provides regular updates on the students' performance during the course of the semester.</p>
<p>Administration</p>	<p>Administration machinery includes units such as Admission Department, Facilities Management, Placement and Training Department, Hostel Management, Sports and Cultural Department, Academic Management, Examination Department, Library Management System and Centre of Excellence, E-Governance Department, alumni and Industry Interaction Cell. E-Governance department maintains data of student admissions. The institution uses ERP solutions for academic and administrative purposes for the benefit of faculty and students this helps save time and avoids paper wastage.</p>
<p>Finance and Accounts</p>	<p>Finance and Accounts department uses Tally Solutions and excel for accounting purposes. The institute has online banking facility with a bank branch situated within college campus for online payment of college and examination fees. The finance and account department makes annual budget for estimated expenditure for the</p>

	financial year.
Student Admission and Support	E Governance department maintains data of student admissions with all their personal as well as previous academic details and their entry exam details such as CET/COMEDK etc. The institution has dedicated website where infrastructure, faculty, and admission related information is available to help the students in the admission process. Students are allowed to login into the college website to access all information related to academics, Examination, Circulars and Notices.
Examination	E-Governance maintains Continuous Internal Assessment details such as syllabus for the test, attendance and marks of the students. Institution has separate examination software for overall conduction and evaluation. Final exam answer scripts are digitally evaluated online by the internal and external evaluators. https://www.dsce.edu.in/exam-section

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Prof. Roopa.U	2019, FutureSkills (NASSCOM initiative)	NASSCOM CoE-DS AI	12500
2019	Nandakumar M B	SAE SUPRA event	SAE SUPRA event	13611
2019	Vijay T	International conference on innovation in nanomaterials and nano technology	NA	10000
2019	Dr. Abhishek Pathak	American Geophysical Union Fall Meeting	NA	23705
2019	Dr. H.K. Ramaraju	International Workshop for Coastal Reservoirs in Earthquake Active Areas	NA	45000
2019	Dr.	2019 ,	NASSCOM CoE-	12500

	K.G.Hemalatha	FutureSkills (NASSCOM initiative)	DS AI	
2019	Vijay T	Implementation of outcome based education for higher educational institute	NA	3000
2019	Dr. Deepak.R	2019 , FutureSkills (NASSCOM initiative)	NASSCOM CoE- DS AI	12500
2019	Vijay T	Course Era	Course Era	2300
View File				

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Faculty Development Programme on RESEARCH METHODOLOGY	NA	09/03/2020	09/03/2020	12	Nil
2019	FDP on Communicative English and Writing	NA	15/04/2020	22/04/2020	1	Nil
2020	All India Seminar on MATLAB For Mechanical Engineers	NA	27/02/2020	28/02/2020	80	Nil
2020	CAPACITY BUILDING ON NBA CRITERIA 1-10	NA	27/06/2020	27/06/2020	21	Nil
2020	Smart Technologies - ICT, Automation and Power	NA	20/01/2020	01/02/2020	45	Nil

	Electronic Applications in Integration of Renewable Energy Sources and Smart Grid					
2019	Advances in Highway Systems (AHS 2020)	Advances in Highway Systems (AHS 2020)	23/06/2020	25/06/2020	211	3
2019	NA	Moodle Server Installation with Maintenance Basics of Networks"	22/07/2020	23/07/2020	Nil	2
2019	"EMERGING TRENDS IN MECHANICAL ENGINEERING SCIENCE"	NA	18/06/2020	22/06/2020	60	Nil
2020	Five day Hands-on FDP on Data Analytics and Machine Learning	NA	14/07/2020	18/07/2020	9	Nil
2020	FDP by DSI CIL in association with Imarticaus - Python for Data Science	NA	07/08/2020	08/08/2020	7	Nil
View File						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Emerging technologies in Structural and fluid modelling	1	30/07/2020	01/08/2020	3

analysis				
Emerging technologies in Structural and fluid modelling analysis	4	22/01/2020	22/01/2020	1
3 Day Workshop on "Advanced IOT Applications and Embedded System Design" under Texas Instrument University Program in association with Edgate Technologies Pvt Ltd, Mr. BALAJI T S, Mr.Krishna Chaithanya Mr. Javad Baig Embedded System Engineers fro	11	27/02/2020	29/02/2020	3
NBA NAAC Accreditation Process	3	04/06/2020	08/06/2020	5
Recent Innovations and Technologies in Electric Vehicles	2	08/06/2020	12/06/2020	5
Research Opportunity in Signal Processing	1	13/07/2020	17/07/2020	5
National Level FDP on "Reviewing English at Higher Education	3	10/07/2020	10/07/2020	1
An Overview of Teaching Techniques in Design of Steel Structural Elements	1	27/01/2020	31/01/2020	5
Two week FDP on smart Technologies - ICT Automation and Power	1	20/01/2020	01/02/2020	13

Electronics Applications in Integration of Renewable energy sources and smart grid organised by Department of Electrical Electronics Engineering				
Attended online certification program on Artificial Intelligence held by AGIMUS Technologies	1	04/05/2020	08/05/2020	5
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
19	5	2	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
-	-	4

6.4 – Financial Management and Resource Mobilization

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

Yes, Internal audit will be done by the management annually on the revenue generated and spent and same procedure will be done using external audit. Internal audit in the department is conducted and evaluated. The process of audit is done once in a semester. Department has to maintain budget information on cash inflow, stock information, cash spent etc. This information is subject to both internal and external audits. Institution level finance department takes care of overall budget maintenance of the college. A separate R D account is maintained in the college and amount will be deposited to that account. a) for nonrecurring expenses as per gov norms b) quotations will be invited and comparative statement will be prepared. c) For recurring expenses link salary, contingency travel, secretarial expense will be spent as per the norms and bills will be collected and maintained. The departments are also subjected to frequent internal audits and yearly external audit.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
DSCE	24300	To attend international conference to participate in SAE
No file uploaded.		

6.4.3 – Total corpus fund generated

800000000

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	NBA, ISO, VTU, LIC, ISOI Audit, NAAC	Yes	Principal, Internal committees
Administrative	Yes	NBA, ISO, VTU, LIC, ISOI Audit, NAAC	Yes	Principal, Internal committees, Management,

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

Parent-Teachers meetings are conducted in every semester. Parents suggestions are addressed through TLP / Syllabus / Proctor. Enquired regarding health conditions during this period, discussed about network issues during online classes.

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

1) Five days faculty development programme on Effective Communication English and basic Computer Skills and Hands on Training in iTell tool 2) Workshop on MOODLE SERVER INSTALLATION with maintenance and basics of networks.

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

Enhanced Frequent Industrial visits to the primere industries. Intrenships is made compulsory to all graduating students. Student Publication is made compulsory to all graduating students. Encouraged students to take Online Courses and intrenships for their skill development. PTM is conducted once in a semester and the inputs/suggestions from the parents are noted down if any for further constructive measures.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Graduation Day	03/08/2019	03/08/2019	03/08/2019	1200
2019	Annual Alumni Day 2019	28/12/2019	28/12/2019	28/12/2019	500
2019	Furore 2019	18/03/2019	18/03/2019	19/03/2019	500
2019	Vibrations 2019	23/09/2019	23/09/2019	25/09/2019	500

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
TechGirls@DSCE	21/09/2019	21/09/2020	124	30
DCWEST	15/02/2020	15/02/2020	110	25

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<p>An energy audit is an inspection, survey and analysis of energy flows, for energy conservation in a building, process or system to reduce the amount of energy input into the system without negatively affecting the output(s). In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprints. Total energy saved for all the hostels together is 1,60,000 Units and the amount saved per year is Rs 11,20,000. Classrooms, staff rooms, office rooms in the campus are provided with CFL lights. Savings due to CFL as compared to Incandescent lamps are explained below. 10 CFLs per room b. 3 rooms per floor c. 5 Floors per building d. Total CFLs per building: 150. (Approx.) e. No. of buildings with CFL: 20 (Approx.) f. Total No. of CFLs in use (Approx.): 3000 g. Energy Saved due to One CFL as compared to 60W incandescent lamp: 40 W h. Total Savings per month Rs 14,040.00.(Approx).</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	4
Provision for lift	Yes	12
Ramp/Rails	Yes	2
Rest Rooms	Yes	11
Scribes for examination	Yes	1
Special skill development for differently abled students	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	30/06/2	7	Swachaa	Swacha	48

			019		NSS activity.	Bharath	
2019	1	1	11/11/2019	1	Blood Donation	Helping the needy	82
2019	1	1	02/02/2019	1	Stem Cell Transplantation Awareness	Blood Cancer victims	75
2019	1	1	01/11/2019	1	Kannada Rajyothsava	To respect culture heritage of the state	750
2019	1	1	12/01/2019	1	Youth Day Celebrations	To propagate Philosophy and ideals of Swami Vivekananda	160
2019	1	1	22/11/2019	1	DSCE AIKYA Student forum	Orphanages, Old-age home	55
2019	1	1	11/03/2019	1	Nature Club @ DSI	Eco friendly Green environment	75
2019	1	1	12/08/2019	3	Flood relief funds	Flood relief funds and material for the North karnataka flood	80
2019	1	1	16/09/2019	1	Orphanage Visit-Sampath	To distribute school bags and desk top computer	45
View File							

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Intellectual property Rights and Technology	07/06/2019	Published in the proceedings of National Conference on recent trends in Science, Engineering and

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction Programme	05/08/2019	10/08/2019	1440
Flood relief funds	12/08/2019	14/08/2019	80
Orphanage Visit-Sampath	16/09/2019	16/09/2019	45

[View File](#)

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

1. Green audit Green Audit is conducted for the DSI campus by both Internal and External Agencies. The methodology and implementation of the green audit findings are recorded in a manual. Institution maintains a clean and green environment within the campus. The Institution ensures the green environment by establishing a separate maintenance department. The maintenance team takes care of the up-keeping of the environment and ensures to keep the surroundings clean. It maintains the lawn and plantations by employing gardeners and the cleanliness has been maintained by employing sufficient number of sweepers. The maintenance staff members do periodic checks and maintain records for the same. The green audit of the campus and its facilities is a regular event in this Institution. Our Institution takes more interest in maintaining the campus highly eco - friendly and energy conservative. The campus looks green by planting more trees which ultimately gives a pleasant feeling for the students to learn and for the faculty members to work. Many initiatives are taken by the management to inculcate the eco-friendly culture among the student community. The lush green campus provides the facilities such as Rain Water Harvesting, Well Grown Trees and Water Reuse Treatment Plant. 2. Environment audit The campus is gifted with adequate greenery like banana plantation, Green house, nursery plants and tree plantations. The greenery in the campus also aids in soil quality protection, watershed, landslide stabilization erosion control, and windbreaks. Such plantations are established to foster native species and promote forest regeneration on degraded lands as a tool of environmental restoration. The college is surrounded by ample greenery along with artificial landscaping in the heart of the campus. Vegetation is maintained and nurtured around main areas of the campus. The campus is enveloped by the canopy of huge trees. Details of the trees are given in the table below. 3. Efforts for Carbon neutrality DSCE has begun necessary steps like implementing green house and several plantations across the campus hence making the weather at campus pleasant always regardless of temperature outside the campus. Our college makes significant efforts for Carbon neutrality by restriction of vehicle traffic within the campus and providing specific parking lots separately for students and staff. Lush greenery around the campus is maintained to reduce the effect of pollution. 4. Plastic free campus The first year students, right from the time of admission are instructed not to bring "use and throw" plastic materials inside the campus. Facility Department monitors the dining hall, wash area, canteen and other common places to keep a watch on use of plastics. 5. Landscaping with trees and plant The campus is gifted with adequate greenery like banana plantation, Green house, nursery plants and tree plantations.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1: 1. Title of the Practice: Proctor system for the students 2.

Goal 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. 3. The Context The proctor system requires continuous interaction of the student and the proctor. The proctor and student should meet at the beginning of the semester to discuss the goals for the semester and also analyze the previous year performance. The meeting between the proctor and the student should also happen before and after every internal assessment tests to discuss his/her performance. The proctors are also encouraged to help students to enhance their skills in extracurricular activities which will help in their overall developments. 4. The Practice A faculty member is assigned as a proctor to every student as soon as he/she enters the campus. The proctor's rule is to act as a guide, a mentor, a role model and a counselor for the student during his/her stay in the campus. The proctor will be the first point of contact for the student for any issues within the college that he/she needs guidance of support in. Many of the students come to the college from various parts of the country and are staying away from their homes. Proctor can help such students in settling down in the campus by acting as a counselor and guiding them in the right direction. Once the student settles in the college he/she will have numerous decisions to take like choosing the right elective, choosing the correct company for the placements, attending various extracurricular activities during the course for all of which the proctor can act as a guide.

Proctors also conduct biweekly meetings to check their performance in the academics and also advise them in attending the classes and mentor them in the issues in academic and in campus life. 5. Evidence of Success The proctors are meant to guide students in the college and the feedback from stake holders have shown that the guidance by the proctor system has helped them in completing the course successfully. Proctors are also satisfied that their efforts have helped their students to become a better graduate as visible in the improvement in the academic performance of the students and also in placement activities. 6.

Problems Encountered and Resources Required It requires continuous updates of the performance of the students both academic and non academic. As per the proctors, the students themselves sometimes refuse to communicate with the proctor at right time about their issues. It sometimes takes a lot of effort from the proctor to encourage such students to open up and communicate. This clearly indicates the system as a whole can be improved further to achieve better results. Best Practice 2 1. Title of the Practice: Holistic Development 2. Goal To plan personal and career goals of students. To improve presentation skills/written skills and oral communication skills. To improve general aptitude test/technical proficiency. To develop leadership qualities. To know resume' writing and preparations for mock interviews. To monitor overall progress of students during his/her graduation. 3. The Context Institute has developed systematic road maps for improving the different aspects of personality developments, communication skill, presentation skill, team work, leadership qualities and resume' writing to make them Industry ready. The students lagging in any of these mentioned skills are eager to participate in the different curricular and extracurricular activities. The objective is to provide a proper training and guidance to all the undergraduate students in all the Engineering disciplines. The role of faculty member is crucial in effective conduction of such activities. 4. Practice Various activities like career goal setting, presentation skill, communication skill, resume writing and aptitude test are conducted frequently by all the departments. Institution is having a centralized Center for Innovation and Learning (CIL) which conducts soft skill training for all the students in every semester. A dedicated in-house hospital (Sagar Hospitals) also conducts regular awareness programmes and issues health cards to all students after a detailed health check up. Conducting Yoga classes is a significant activity to be highlighted. Yoga classes are conducted in the

Yoga Meditation Center (Rainbow Building), by a well-trained yoga faculty. Students and faculty are attending regular Yoga classes conducted after office hours. Students actively participate in Yoga classes for an overall rejuvenation of mind and body. It helps in many perspectives for students as observed. 5. Evidence of success The evidence of success is reflected through the overall personality development of the students. Those students who had lack of confidence, weak in communication and poor presentation skills were observed having marginal improvement in the lacking areas when they reached final year. It enabled the students' to keep their body and mind fit and also increase the metabolism so as to enable them to keep their mind and body in control. Many faculties also undergo yoga training regularly and have expressed their happiness in attending and reaping the benefits of yoga and meditation. There is also a marginal increment in the number of students participating in various events held within and outside the college. Parents were happy to see the overall progress of their ward. 6. Problem Encountered and Resources required Students from rural areas are not that much exposed to the current enhancements. To overcome this, faculties play an important role by making them aware of the same. To mould the students' mentality towards improvement in their personality without hampering academics was a difficult task. Students hesitate to take part in activities because of lack of confidence and daring. Motivating students for participation is a challenging task.

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

<https://www.dsce.edu.in/physics/physics-quick-links>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Institutional Distinctiveness - INDUSTRY CONCLAVE DSCE is a well-connected, eco- friendly campus spread across 29 acres with abundant greenery located in a hillock with scenic beauty, Amphitheater, sprawling playgrounds, indoor sports facilities and parking lot. Our institution is a Wi-Fi enabled campus, with well-equipped RFID digital central library with well rated books and has access to many technical journal sites. The institution has three spacious auditoriums to facilitate academic and cultural events. In addition to these, every building has its own mini auditorium and seminar halls to conduct departmental co-curricular and extra-curricular activities. Dayananda Sagar College of Engineering focuses on the overall development of the students joining in the first year UG in Engineering. Even before the students join, teachers are prepared themselves with the syllabi and their course files are updated with the changes every semester. Professors are also ready with their lesson plan, academic calendar, presentations, e-content, work diary and attendance registers for an efficient teaching learning process. Faculty also gets ready with the e-content resources for digital classrooms so as to disseminate their ideas and latest developments in their field of teaching with pictorial representations. Beyond to this, our Institution conducts an Industry Conclave for all the streams of Engineering separately to update with the latest developments in the Industry. For teaching, faculty should prepare and update themselves in their specialized fields so as to cope up with the developments in Technology, Science and Engineering. Evolving faculties for the updates in emerging areas can produce industry ready engineers. Regular Industrial visits and Industry-Institute interaction are also part of curriculum. During the Industrial Conclave, an expert from the industry along with the faculty and HOD will discuss the existing Syllabus of different courses and modify as per the requirements of the Industry. The main objective of conducting the Industrial Conclave is to discuss the existing syllabus for UG Engineering courses from

first semester to and the Electives in higher semesters and to take suggestions from the industry expert in the concerned field. Usually the Industry Conclave is held during the month of March every year in each department in the presence of the industrial expert along with the faculty and HODs. Most of the experts are into product design and development or system certifications and installations. Syllabus and Scheme are presented by the faculty or HOD in detail in the Industry Conclave and suggestions are noted and are incorporated in the syllabus for the incoming batch. First year departments discuss the suggestions with core branches to modify the syllabus accordingly as per their requirement. Syllabus is modified for more application oriented so as to be useful for the students to be Industry ready. Modified Scheme and Syllabus along with the suggestions by the Industry Conclave is presented by the HOD in the BOS meeting for approval subjected to ratification by Academic Council. A systematic approach on syllabus updation through Industry Conclave can create Industry ready students for good placements in reputed companies.

Provide the weblink of the institution

<https://www.dsce.edu.in/physics/physics-quick-links>

8.Future Plans of Actions for Next Academic Year

Future Plans of Actions for Next Academic Year Institute has been initiating and implementing various activities to assure and improve quality in different aspects of academics, co curricular and extracurricular activities, faculty development. Going forward, in view of the situation which has arisen due to Covid-19, Institute aims at having blended mode of teaching. Taking advantage of the technology, arrange expert lecture sessions to the topics related to the courses the students are studying from Industry experts. Have Industry conclaves conducted at regular schedules to discuss about offering industry relevant curriculum, types of electives that can be offered to students, value add programs and hands on training which are necessary to strengthen students understanding of the topic in terms practical implications. Some of the initiatives that are planned for the next academic year are: 1. To continue to apply for NBA Accreditation with the renewal to Tire-1 format from Tire-2 format. 2. Firm up collaborations to bridge the gap between academia and industry. Have MOUs with Research organizations, Industry and Consultancy services to enhance research, consultancy and training. 3. Focus on faculty development and training, encourage faculty for higher studies, skill updating, training and Research. 4. To promote entrepreneurship and innovation through skill development. Institute has "Innovation and Entrepreneurship Development Cell (IEDC)" and planning for enhanced activities in this area. Skill development will be the focused area for enhancing employability of students 5. Continue to participate in NIRF rankings and aim at improving rankings. 6. Organize more community service activities with NSS unit of the college to contribute to the wellness of the society .Along with NSS unit, departments are involved in the organization of different social activities. Principal DSCE