SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

PROVIDENCE COLLEGE OF ENGINEERING

ANGADICAL SOUTH P.O, CHENGANNUR
689122
www.providence.edu.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

June 2021

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Providence College of Engineering is the realization of the vision of the late **Shri George Mathew** (Monachan) of the Pazhavana family of Chengannur.

In 2012 he founded the MGM Society and poured his heart and soul into building an engineering college unmatched in infrastructure and facilities.

Providence College of Engineering was launched with fanfare in 2015 and under his visionary leadership, the institution rose to become the youngest and one of the most prominent engineering colleges in Kerala. It is approved by All India Council for Technical Education (AICTE) and affiliated to APJ Abdul Kalam Technological University.

Vision

The vision of Providence College of Engineering is to be a premier institution that prepares globally competent, socially committed, and innovative engineering and management professionals.

Mission

- Generating an outstanding knowledge base of scholarship and research through innovative practices.
- Inspiring students to continually develop their knowledge, skills, and abilities by making learning and teaching lifelong processes.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. Dynamic and visionary management.
2. Academic excellence as exemplified by excellent faculty members and backed by infrastructure
3. Good governance driven by the expertise and wisdom of eminent personalities from academic and industry serving on the board of Governing Body.
4. Infrastructure meets the academic research and student support needs. The college is second to none with the state-of-the-art laboratories, well equipped library, CNC lathe and universal access to Wi-Fi facility.

Institutional Weakness

1. Limited and no scope for starting new programmes due to the prevailing regulations of KTU.
2. Lack of funding from national organization for nurturing advanced research.

3. The industry – institution interface can be enhanced further.
4. Participation of alumni in the overall development of the college is less.

Institutional Opportunity

1. There is an ample scope for starting Masters Programme in Engineering as a good number of teachers posses research qualifications and are also engaged in quality research work.
2. Conducting add on courses and skill based certificate courses for enhancing the employability of students.
3. Increasing the faculty publications in referred and peer reviewed journals.
4. Exploring more oppurtunities for consultancy projects.

Institutional Challenge

1. The institution is not being able to pursue cutting edge research due to limited resource funding from national funding agencies.
2. There is a need for a change in approach strategies and process for improving the results of the students.
3. Poor schooling of the students and lack of basic knowledge on some subjects create a problem in the progress of the curriculum.
4. Enhancing the communication and employability skills of the students has become a major challenge in the present day industry requirements.
5. Enhancing the placements in core branches and core companies.
6. To become a centre of excellence with accreditation and autonomy.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institution offers five undergraduate programmes in Engineering and one PG programme in Business Management. The courses follow the curriculum designed by APJ Abdul Kalam Technological University, Thiruvananthapuram. A manadatory induction programme as per AICTE guidelines is conducted for all the newly inducted students before the commencement of the classes. The conduct of all the courses is in tune with the academic calendar set by the university for each academic year. Apart from the university prescribed courses, the curriculum delivery is being enriched incorporating different; certificate courses designed at the college level in collaboration with various organisations. Apart from the course courses for each scheme, the curriculum offers a choice based; elective system right from fifth semester. The students are required to complete industrial; visits and Industrial training in different industrial organizations as part of their curriculum. Also crosscutting issues like Professional ethics, sustainability, human values etc. are integrated into the curriculum. The teaching faculties actively participate in the assessment process of the university. The institute has student chapters of professional bodies like IE(I), IEEE, CSI, ISTE, IGBC, ASME etc. to keep pace with research and recent advancements. The course delivery is being documented properly and is verified by the IQAC of the; institution. The feedback regarding curriculum is collected from all the stakeholders and are communicated to the university from time to time.

Teaching-learning and Evaluation

The admission process is carried out in the institution based on the guidelines from the Government of Kerala and the KTU university .Students are admitted to reservation categories abiding the rules set by the government. The learning levels of the students are assessed through series test, assignments etc and special attention is given to slow learners for their improvement. Activities are also conducted in appreciation to the efforts of fast learners. The institution follows student centric method of teaching like experiential learning, participative learning and problem solving methodologies to enhance learning experience of students. Students are encouraged to participate in various workshops, seminars, paper presentations, HACKTHONS etc to enhance their skills. All the classes including seminar hall are equipped with ICT tools. College owns a blend of young and experienced faculty with high technical competence. The institution adhere to the academic calendar of affiliating University for the conduct of the examination. The academic performance of the students and attendance of the students are maintained and recorded in each department through LINWAYS portal which can be accessed by students, parents, staffs, HoDs and Principal.

The institution practices outcome based education by defining appropriate POs, PSOs and COs for the programmes and is communicated to the students. The series examination question paper is prepared such that each question is mapped with its respective CO. Attainment calculations are done through direct and indirect methods taking inputs from series tests, assignments and feedbacks. Feedback of the faculty are also taken through linways portal.

Research, Innovations and Extension

Providence College of Engineering Chengannur has been striving hard to excel in the sphere of research steered by well-defined R&D Policies. Dean's research presentations were held every semester for the faculty members and for the final year students. This gave detailed instructions on conduct of projects, writing project reports, preparing funded project proposals, preparing PhD proposals and understanding the indexing of publications. Also, monthly R&D meetings were held where each departmental representative gave the status of project progress as well as the research directions of each faculty member. Based on this input, corrective and progressive directions for each faculty member as well as for each project group were suggested and implemented.

The College has received Rs 37,500 research grants from Govt funding agencies and is expecting to receive a good number of research grants during the academic year 2020-21. College has conducted nine workshops catering to various aspects of research methodology. It has four experts registered to supervise PhD students. Faculty members of the college have published 53 research papers in peer-reviewed / SCOPUS / SCI Journals and 17 papers in conference proceedings and book chapters. The College has conducted 198 extension/outreach programmes with a total of 67% student participation. Students are made aware of the moral and social obligations through the NSS, UNAI and Anti-Narcotics Club units such as AIDS Awareness, Medical camps in addition to technical exhibitions. College has received many awards and recognitions from the Government/ recognized bodies for extension activities.

The College has conducted 198 linkage programmes such as internship and industrial visits. Three MoUs have been successfully undertaken and are ongoing.

Infrastructure and Learning Resources

The college has excellent infrastructure facilities with a total built up area of 11454 sq.m, which inhabits well-

furnished Offices and Departments, ICT enabled classrooms, Seminar halls, a Boardroom, well-equipped labs, central library, central computing facility and a canteen commissioned as per the norms of the statutory bodies. The campus also consists of Football, Basketball and Badminton courts, Yoga Centre and facilities for conducting cultural activities. All the class rooms and seminar halls are ICT enabled with projectors, LAN and Wi-Fi facility in order to ensure the effective teaching learning process. The Laboratories and workshops of every department are well equipped and well maintained for carrying out curriculum-oriented practical sessions and projects.

The central library of the institution holds a significant volume of books, magazines and newsletters along with an adequate number of national and international journals. The library is well equipped with a digital library which becomes an added advantage for students and staff members for improving their academics. The Central Library is partially automated with an Integrated Library Management Software named KOHA, an open source software with MySQL database back end.

The college frequently updates IT facilities for better administering the curricular and co- curricular programs. Each Department has its own computer facilities based on the strength of students besides the central computing facility. Many licensed softwares are available in the college for specialized applications. The college has two separate leased line connections with a total bandwidth of 90 Mbps. The entire campus is Wi-Fi enabled and registered users can connect their laptop or other computing facilities at any time to access the internet. 20 Wi-Fi access points are installed at various locations in the campus for enabling seamless wireless networking which covers all the classrooms, laboratories, administration areas and canteen. The college strives to keep pace with the changing trends and technologies in the field of ICT.

The college has a system and procedure for the optimal utilization of physical and infrastructural facilities.The campus maintenance is coordinated by several committees constituted by the Institution.

Student Support and Progression

The college has offered a large number of scholarships since its inception for academically brilliant students and also for students belonging to the lower-income category. As of now 369 students received scholarships offered by the campus. Apart from that students are utilizing the benefit of e-grants and fisheries e-grants from the central government and Kerala state sc-sc development department. A range of facilities such as training for competitive exams, physical education instructor to maintain academic standards and mental wellness. Also, services like professional counseling on campus are actively involved with students to shape a student's behaviour and also instil enough discipline in them. Support like career guidance and placement services, grievance redressal, and other welfare measures are also made available to all students.

As the academic sessions started off from the year 2015,we have only two batches who have finished their four year programmes. Of these two batches that have passed out , 47 got placed from both the batches and 11 of them have chosen for higher studies in India and abroad. An active student involvement is constituted in all academics and administrative committees of the institution and there has been considerable participation and few medals also have been secured at local, regional and state levels and cultural activities in various tournaments and competitions organised in different parts of Kerala.

To foster the ties between alumni and the parent institution a campus alumni association was established in 2019. One of the main purposes of alumni associations is to support a network of former graduates who will, in turn, help to raise the profile of the Institute. Just like any other student organization in educational institutes, alumni associations aim to bring together like-minded individuals. Providence Alumni Association is very active and a warm rapport is maintained through Annual meetings, College website, and Social media groups.

Governance, Leadership and Management

The institution has an effective governance mechanism in line with the vision and mission of the institution by practicing decentralization and participative management involving the Principal, Deans, Heads of Departments, Programme Coordinators and faculty in-charges. Each of the functionaries has specific roles and responsibilities. The institution policies, rules and regulations are planned and structured under the efficient leadership of the Principal. The institution has a strategic plan for certain key performance indicators to reach the goals. The College Advisory Board, Academic Council, Research & Development, IQAC, PTA and various other committees are constituted as per the norms of the regulating bodies and conduct the meeting regularly for the smooth and orderly functioning of the institution.

The Institution has a policy and strategy for mobilizing resources. The financial transactions of the college are subjected to regular internal and external audits. Internal Quality Assurance Cell (IQAC) is responsible for the quality standards in teaching and learning, evaluation, research and environmental sustenance. The Academic Audit, organizing various workshops, FDPs, webinars, seminar presentations, induction programmes are some of the many IQAC initiatives which are successfully implemented.

The quality improvement in research has culminated in the publication of articles in indexed journals and conferences. The Performance Appraisal System is in practice for encouraging the staff for better involvement and accomplishment. The faculty members are encouraged to attend FDPs, workshops, seminars and conferences by extending necessary financial support and also certain welfare measures are in place for both faculty and other staff of the institution. The placement rate has increased significantly as a result of conducting focused placement training activities. Many academic and administrative processes are automated through E-governance policy. Significant addition of building space and implementation of green initiatives are the other major improvements.

Institutional Values and Best Practices

The college is sensitive to gender equity and promotion. Appropriate programs are organized regularly. Counselling facilities and common room are provided to female students with adequate safety and security and the campus is monitored through CCTV surveillance. The institution has strong commitment to differently abled students and provides facilities such as ramps, lifts, special washrooms etc.

To expose the students in experiential learning beyond traditional classroom learning, students involve in social activities which promote citizenship role and social networking skills, create a linkage between the institutions of higher learning to community or societal development where they live, involve students to be aware of the community and its needs and thus help in eradicating the social problems. Thus the students are enabled to identify the needs and problems of the community which in turn helps them to develop among themselves a sense of social and civic responsibility. To sensitise the students and the employees of our institution towards the constitutional obligations, many events are celebrated with fervour.

The college has adopted many best practices out of which two practices stand out are 'Expert Lectures and Conferences' and 'Humanitarian aids and career guidance for specific communities'. The Institute has its own distinctiveness in creating socially responsible professionals by imparting human values and leadership

qualities .

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	PROVIDENCE COLLEGE OF ENGINEERING
Address	ANGADICAL SOUTH P.O, CHENGANNUR
City	Chengannur
State	Kerala
Pin	689122
Website	www.providence.edu.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Principal	Santhosh Simon	0479-2451084	9747129333	0479-2451085	principal@providence.edu.in
IQAC / CIQA coordinator	Vinod C	0479-2451083	9747343070	0479-2451085	vinod.c@providence.edu.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	15-06-2015

University to which the college is affiliated/ or which governs the college (if it is a constituent college)		
State	**University name**	**Document**
Kerala	A.P.J. Abdul Kalam Technological University	[View Document](#)

Details of UGC recognition		
Under Section	**Date**	**View Document**
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	**Recognition/Approval details Institution/Department programme**	**Day,Month and year(dd-mm-yyyy)**	**Validity in months**	**Remarks**
AICTE	[View Document](#)	15-06-2020	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	ANGADICAL SOUTH P.O, CHENGANNUR	Rural	10.19	13555

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	**Name of Programme/Course**	**Duration in Months**	**Entry Qualification**	**Medium of Instruction**	**Sanctioned Strength**	**No.of Students Admitted**
UG	BTech,Computer Science And Engineering	48	Plus Two	English	60	55
UG	BTech,Electronics And Communication Engineering	48	Plus Two	English	30	14
UG	BTech,Electrical And Electronics Engineering	48	Plus Two	English	30	10
UG	BTech,Civil Engineering	48	Plus Two	English	60	21
UG	BTech,Mechanical Engineering	48	Plus Two	English	60	15
PG	MBA,Management	24	Plus Two	English	60	17

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				9				4				48
Recruited	9	0	0	9	2	2	0	4	18	30	0	48
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				14
Recruited	7	7	0	14
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				10
Recruited	8	2	0	10
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualificatio n	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	8	0	0	2	2	0	2	1	0	15
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	1	0	0	0	0	0	16	29	0	46
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	82	1	36	0	119
	Female	34	0	9	0	43
	Others	0	0	0	0	0
PG	Male	12	0	0	0	12
	Female	5	0	0	0	5
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		**Year 1**	**Year 2**	**Year 3**	**Year 4**
SC	Male	1	1	0	2
	Female	0	2	1	2
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	1
	Others	0	0	0	0
OBC	Male	12	22	10	9
	Female	7	6	6	3
	Others	0	0	0	0
General	Male	56	66	59	54
	Female	26	26	22	28
	Others	0	0	0	0
Others	Male	7	8	11	11
	Female	3	4	0	3
	Others	0	0	0	0
Total		112	135	109	113

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
325	325	260	170	90

File Description	Document
Institutional data prescribed format	View Document

1.2

Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
5	5	5	5	5

2 Students

2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
467	461	333	227	110

File Description	Document
Institutional data in prescribed format	View Document

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
48	48	48	60	60

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
108	98			

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
51	54	56	40	20

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
51	54	56	40	20

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 26

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
339.19	707.55	897.48	1176.58	1072.54

4.3

Number of Computers

Response: 151

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

Providence College of Engineering was founded by a group of well known technocrats in the year 2015 with a belief that the continuous search for knowledge is the sole path to success. With a scientifically planned methodology combined with a team of handpicked faculty, the best in the teaching profession and the state of the art infrastructure, the quality of the engineering education at Providence is unparalleled in the region.

Curriculum is the core of educational process and learning experience of the students is determined by its prevalence, adequacy and relevance. Even though the Institution has to strictly follow the curriculum designed by the affiliated University (APJ Abdul Kalam Technological University), it has always tried to incorporate the mission and vision of the institution into the academic programmes in the form of projects, add on courses, co-curricular activities and MOUs with Indutries.

- The college offers mandatory Induction training as per AICTE guidelines to all newly admitted students to reinforce the fundamental concepts, Unviersal Human Values and languages skills.

- Courses are allotted well in advance by the Head of the departments to the faculty based on their specialization and preference. Faculty will finalise the course plan that includes the content beyond the syllabus topics/ expert talks/industrial visit/self learning tools/online courses/interaction with industry.

- Each member of the faculty maintains course file which includes syllabus, course plan, teaching materials such as tutorials, assignments, internal examination question papers, previous year University question papers, content beyond syllabus topics, documents related with various content delivery methods & self learning tools, Course Outcome (CO) Evaluation, Impact of course content delivery and analysis of the outcome which is reviewed by HOD & Internal Quality Assurance Cell (IQAC).

- Internal Audit is done to monitor effectiveness of the teaching learning process.

- Remedial classes for weaker students and motivation sessions for bright students will be carried out as and when required.

- Faculty evaluations are taken from students and analysis is carried out for enhancing the content delivery.

- The students are encouraged to carry out project/s by keeping the parameters environmental conscious, safety, cost, possibility of progress of final year project is monitored, Journal

publication, prototype model, patent possibility and accordingly marks will be awarded during project evaluation.

- Faculty members are encouraged to have regular academic and industry interaction by attending faculty development programmes, conferences, certification courses to update their knowledge base and improve teaching skills by doing research and publications.

- Institute has student and faculty chapters of professional societies like IE(I), IEEE, CSI, ISTE, IGBC, ASME etc to keep pace with research and recent advancements.

- The Institution maintains continuous interaction with industry, research bodies and universities for effective operationalisation of the curriculum and they are part of the Department Advisory Boards (DAB).

- Students are required to complete industrial visits/ Industrial training in different industrial organisations as part of their curriculum. Such visits give the students a clear idea of the industrial practices, latest technology trends and practical knowledge.

File Description	Document
Upload Additional information	[View Document](#)
Link for Additional information	[View Document](#)

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

The evaluation system adopted by Providence College of Engineering follows the KTU prescribed components namely, Continuous Internal Evaluation (CIE) and the End Semester Examination (ESE). KTU follows a continuous academic evaluation procedure.

Academic evaluation procedure and corresponding weights are as follows:-

a) For theory courses: - 1/3rd weightage for CIE and 2/3rd for ESE. The maximum marks for internal evaluation and end semester examination for theory courses are fixed as 50 and 100 respectively.

The Scheme of evaluation of CIE is as follows.

i) Two internal tests each of 20 marks and of one hour duration.

(Internally by the College)

ii) Tutorials/Assignments/Mini Projects carrying 10 marks.

However, minimum of 75% of attendance and 45% of CIE is mandatory for attending the ESE as per 2015 regulations. Also, 45% in both CIE and ESE is mandatory to get a pass in a particular course. According to the 2019 scheme, the ratio of weightage of CIE and ESE remains the same. The components of CIE are two assignments of total 15 marks, two internal tests of 25 marks and 10 marks for attendance. In order to get a pass in a course, a total of 50% of marks is needed.

All the above assessments are mandatory to earn credit. On completion of these, grades will be assigned. In case the Practical /Laboratory/Workshop courses are not completed in the semester, grade I (incomplete) will be awarded against the course and the final grade will be given only after the completion of the course/assessments.

 c) Comprehensive Examination

As students appear for placements from seventh semester onwards, a comprehensive examination is to be completed in the sixth semester. This examination will be a written cum oral examination covering broadly all coursecompleted s so far .

d) Seminar

Each student has to give a seminar on a professional topic of current interest in

consultation with the faculty member in charge of the seminar in the Department. The

seminar will be evaluated by a committee formed in the department.

e) Design Project

Each student or a group of students has to take up a design project. The project topic

could be arrived at in consultation with any faculty member in the department. The

Evaluation of the project is to be done in two stages. Two project progress evaluations

each carrying 20 marks and a final report evaluation and presentation of the project

for 60 marks. The project supervisor and two other faculty members from the same or

any other department, nominated by the Head of the Department form the evaluation

board.

f) Final Semester Project

Students, either individually or in a small batch not exceeding four, have to do a

project approved by their faculty supervisor.

Evaluation scheme is given below:-

i) Two progress assessments 20% by the faculty supervisor/s

ii) Final Project Report 30% by the Assessment Board

iii) Project presentation and Viva 50% by the Assessment Board

dule set for all academic activities.

File Description	Document
Upload Additional information	[View Document]
Link for Additional information	[View Document]

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. **Academic council/BoS of Affiliating university**
2. **Setting of question papers for UG/PG programs**
3. **Design and Development of Curriculum for Add on/ certificate/ Diploma Courses**
4. **Assessment /evaluation process of the affiliating University**

Response: C. Any 2 of the above

File Description	Document
Institutional data in prescribed format	[View Document]
Details of participation of teachers in various bodies/activities provided as a response to the metric	[View Document]
Any additional information	[View Document]

1.2 Academic Flexibility

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

Response: 100

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

Response: 5

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 4

1.2.2.1 **How many Add on /Certificate programs are offered within the last 5 years.**

2019-20	2018-19	2017-18	2016-17	2015-16
1	1	1	1	0

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Link for Additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 5.17

1.2.3.1 **Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
32	14	34	13	0

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document

1.3 Curriculum Enrichment

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

Response:

The Institution has always been pioneers in making voluntary efforts in human rights and equality. This commitment is evident from various cells and organizations functioning in the campus.

- Many cells/committees are functioning with the vision of offering technical and scientific support for the socio-economic development of society. Important cells functioning in this regard include NSS, Anti-Ragging Cell, Anti Narcotic Cell, Women's Cell, etc.

- Human Rights & Social Awareness Programmes offered such as Legal awareness classes, Anti drug campaign, Traffic awareness, Blood donation camps, Awareness Programmes of Oct 2 etc.

- Gender equality is maintained in the institution

  - Equal opportunities are given to both the genders in all activities.

- The number of females (students, faculty & staff) is comparable with the number of males in the campus.

- Women counselors

- Women's hostel in the campus

- Women's cell

- Girls' retiring room/sick rooms

- Ladies basketball/badminton team

- Equal representation to women in all student councils

- Ladies representation in PTA

- Environmental and sustainability are put in to practice via

  - Eco friendly campus

  - Introduction to Sustainable Engineering as a common course for First year students

  - Environmental subject is core course/elective in some branches.

  - Awareness programs are initiated by NSS which extensively carry out activities for environmental protection and ecological preservation.

- Professional Ethics is included in the curriculum.

The institution encourages the practice of obtaining feedback from various stakeholders such as students, alumni, employers, parents, society and eminent personality from Industries.

- The class committee meetings that are held periodically provide a platform for the students to discuss academic and non-academic issues.

- Parent-teacher meetings are held periodically. Their suggestions are incorporate in improving the curriculum.

- The Alumni surveys, Employer surveys and Parent Surveys are taken to provide constructive suggestions in improving the curriculum.

- The valuable suggestions from industrial personnel during meetings/industrial visits, in improving the curriculum needs to match with needs of the industry are duly communicated to the University. The institute also collects feedback from the recruiters on the performance of students. This enables the institution to understand what industry expects from the students and act accordingly.

- The college is often visited by academicians all over India and also from abroad. Their views on the curriculum are obtained and efforts are made to incorporate the same.

All the suggestions from various stakeholders are communicated to the University through Academic council members, BoS meetings or during Syllabus revision for design and review of the curriculum.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	[View Document](#)
Any additional information	[View Document](#)

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 1.31

1.3.2.1 **Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
10	5	5	0	0

File Description	Document
Programme / Curriculum/ Syllabus of the courses	[View Document](#)
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	[View Document](#)
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	[View Document](#)
Any additional information	[View Document](#)

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

Response: 61.67

1.3.3.1 **Number of students undertaking project work/field work / internships**

Response: 288

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	[View Document](#)
List of programmes and number of students undertaking project work/field work/ /internships	[View Document](#)
Any additional information	[View Document](#)

1.4 Feedback System

1.4.1 *Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni*

Response: A. All of the above

File Description	Document
Any additional information (Upload)	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. **Feedback collected, analysed and action taken and feedback available on website**
2. **Feedback collected, analysed and action has been taken**
3. **Feedback collected and analysed**
4. **Feedback collected**
5. **Feedback not collected**

Response: C. Feedback collected and analysed

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 47.02

2.1.1.1 **Number of students admitted year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
113	135	117	139	110

2.1.1.2 **Number of sanctioned seats year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
240	240	240	300	300

File Description	Document
Institutional data in prescribed format	[View Document]
Any additional information	[View Document]

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 64.58

2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
30	33	28	31	49

File Description	Document
Average percentage of seats filled against seats reserved	[View Document]
Any additional information	[View Document]

2.2 Catering to Student Diversity

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

Response:

The college organizes an orientation program for the parents and the students at the commencement of a new batch every year. The program would help students and parents to get familiarized with the institution, curricular and co-curricular activities, facilities, rules and regulations etc. During the orientation session all the students are given personality development programs like communication skills, personality development ,time management,yoga and motivational sessions. During the course of study, group of 20 students are assigned to a faculty advisor. The faculty advisor will act as a mentor and will take care of the academic matters.

Active learners

High performing students are identified on the basis of internal assessment, involvement in classroom and university examination. The students who are excellent performers are awarded with B. Tech Honours degree by the university. Every year the best outgoing student award is given to the best performers from each department. The students were encouraged to do internships abroad with the support from college management. Students are also motivated to be members of various professional bodies like IEEE,CSI etc. Every year all the students who score outstanding results for Mathematics are awarded cash price from the Department of Mathematics.

Slow Learners

During the admission process the Principal interacts with the parents and students personally. As the faculty advisor periodically interacts with the students, the progress of the students in studies are communicated to the parents directly. Along with this, the institute has a system to communicate performance and attendance of students to parents regularly. The attendance and performance of the students are communicated to the parents through linways. PTS meetings are arranged every semester after the first internal examination to evaluate the performance of the students. In addition to this faculty members do periodic interaction with parents about the performance of slow learners. Along with this if a student shows continuous difficulty in learning, they are inspired with the help of counsellors. Also if any students are found indeed of an external counsellor, they are directed to counsellor through advisor.

Faculty in charge conduct remedial classes and revision classes before the university examinations.

Extra classes are organised by the faculty in charge of a course to clarify doubts, explain important topics.

Both the slow learners and fast learners are encouraged to attend workshops, internships, online courses conducted both in and outside the college level. They are provided with opportunities to organise technical and non-technical events in the college.

File Description	Document
Upload any additional information	[View Document](#)

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

Response: 9.16

File Description	Document
Any additional information	[View Document](#)

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

Response:

Students are given the top priority in the college. The teaching learning process is designed to fulfill the student's overall development and Outcome Based Education (OBE) is adopted in the institution. College is providing sufficient facilities to meet OBE. In the beginning of the programme, a bridge course / orientation programme is conducted for all the first year students to help them to adapt with the college environment and the curriculum. Tutorial classes are conducted as per the curriculum prescribed by the university. Apart from this, Remedial classes are given for the weak students/slow learners to clarify their doubts and enhance their knowledge regarding the particular subject. Special efforts are taken for encouraging the students to participate in curricular, co-curricular and extra-curricular activities. Sports, games and physical education have been initiated in the institution for the students' all round development. Students are encouraged to go for competitive examinations like GATE. Extra coaching classes are conducted by some departments as per GATE syllabus. Counseling is provided for all the students to relax from the stress and to move in the right path.

Experiential Learning:

Students' are encouraged to do seminar, projects, paper presentations every semester. Students are directed to participate in conferences and workshops outside college to get more exposure and to improve professional skills. Guest lectures and interactive sessions with successful alumni are organized for each semester. Every year students are instructed to participate in internship programmes in industries related to their respective branch. Thus the students get an opportunity to apply acquired knowledge to real work experience. All the courses are provided with necessary learning material for promoting independent learning and for enhanced learning experience.

Participative Learning:

Department wise students' Associations are formed to ensure participation of students in various Programmes like workshops, seminars, quiz competitions, paper presentation project presentation etc. for participative learning. Technical fests were conducted to exhibit the technical skills and talents of our

students. Industrial visits are organized in each semester to give more technical exposure and to promote industrial interaction. To facilitate independent learning, ample computer facilities and internet connection with Wi-Fi are provided.

Problem Solving Methodologies:

To improve the problem solving skills of our students, they are encouraged and supported to participate in HACKATHONS, project contests and coding competitions. In addition mini projects and main projects in the curriculum serve as a major platform to hone the problem solving skill. Students are taken professional body membership such as IEEE, IEI to enhance their research ideas.Software based communication skill training are provided to students during Language lab sessions.This helps to acquire proficiency in listening, speaking, reading and writing.

File Description	Document
Upload any additional information	View Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

 The institute provides the facility to encourage the use of ICT enabled tools in the campus. All the faculties make use of ICT enabled tools and resources in the campus. WIFI facility is available in the campus and all the classrooms are equipped with SVGA projectors and LAN.Laptops are provided to each department for the department activities.Printers are also provided in each department.Apart from using powerpoint presentations ,teachers use youtube videos, NPTEL lectures to deliver lectures. Linways has been used as AMS in the campus from 2017 onwards. This tool is meant to manage various activites like allocation of courses to the faculty, timetable setting, student attendance, internal assessment, end-semester assessment, declaration of results, progress report generation, course file generation etc .This enables the students to access the study materials uploaded by the faculty. Online quizzes are conducted with the help of linways. Along with linways, Microsoft Teams has been used as the official e-learning platform from the COVID-pandemic. Some faculties have youtube channels to post the lecture videos of topics that are included in the syllabus. College serves as a local chapter of NPTEL where students are getting certified in various courses. The electronic resource packages DELNET, SPOKEN TUTORIAL are available. The college library is registered under national digital membership. Seminar hall is equipped with wifi facility and SVGA projectors. Invited talks and webinars are conducted in seminar hall using ICT facilities.

File Description	Document
Upload any additional information	View Document

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

Response: 15:1

2.3.3.1 Number of mentors

Response: 31

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 21.1

2.4.2.1 **Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
7	11	12	8	6

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	[View Document](#)
Any additional information	[View Document](#)

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

Response: 2.7

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

Response: 137.75

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

The academic calendar is prepared for every semester which is in strict compliance with the University guidelines. Academic calendar provides the information on scheduled timetables for internal assessments, model examinations etc.The question paper pattern for the internal examinations has been standardized by the institution with the help of exam cell evaluation committee duly nominated by the concerned department head. All faculty have to submit the question papers before the deadline for the scrutiny process. Outcome Based Education has already been initiated in the college,so the question paper pattern also follows the same.Monitoring cameras are placed in all classrooms as well as exam cells to avoid any kind of malpractices and to improvise the transparency in the conduct of internal examinations.

Evaluation Process:

Theory subject:college conducts Two series tests and one Model test for theory subject.

If a student misses any of the series examinations due to valid reasons then they are eligible to write the retest.The Institution follows the evaluation procedure prescribed by the affiliating University.Internal test answer scripts are evaluated using the answer scheme prepared by faculties returned to students within 10 days from the actual exam date. Student marks are intimated to their parents through email/sms/phone calls etc.

UG Internal marks are finalized based on the following schemes:

Series Examination 1 and -2 : 25 Marks

Assignment : 15 Marks

Attendance :10 Marks

Total : 50 Marks.

Maximum marks for the end semester examination is 100.

Laboratory Classes: In laboratory sessions, the students work in groups and monitored by faculty. Cycle of experiments and manuals are given in advance. The performances of the students are monitored through the way they demonstrate, viva voce, record completion etc. Also conduct one final exam internally for analysing the overall performance of the student for the laboratory class.

Internal Assessment : 75 Marks

Final practical exam : 75 Marks

Total : 150 Marks

Seminar / Projects:

Evaluation of the project and seminar is also conducted according to the affiliating University norms.

A panel of evaluators including HoD,research and development department representative and faculties to assesses the performance of individual group.The academic performance of the student and attendance of the student are maintained and recorded in each department through LINWAYS portal which can be accessed by students, parents, staffs, HoDs and Principal.

File Description	Document
Any additional information	[View Document](#)

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

Response:

The institution has an exam cell with representatives from the faculty and lab staff intended for the smooth functioning of the conduct of examinations.

The internal tests are conducted as per the schedule of university academic calendar. Time table for the tests are prepared well in advance and communicated to the students earlier so that the students can prepare

for the examination well in advance. Timetable is usually set based upon considering the difficulty of the Subject.This is done by considering the opinions received from the faculty incharge of each subject and the students. It's done such that the tough subjects are usually scheduled ensuring that the students are getting enough time for preparation. Questions prepared by the faculty will be verified by the HoD before it is send to the examination cell.

During the examination,if any malpractice is reported,the same will be enquired by disciplinary action committee and the statements of the students and the invigilator are verified with the help of camera present in the exam cell and classroom..After the examination, answer sheets are distributed to the students and if the students are having any grievances, immediately it will be addressed by the respective faculty in-charge.The answer sheet of such student is assessed by the faculty once again in the presence of the student. Any corrections in the total of marks or assessment of answer books as identified by students are immediately done by the faculty members.

Final date for publishing the marks to students will be intimated to all the faculties. Once the evaluation is completed and grievances of the students if any is addressed by the faculty, the marks are published in linways in a time bound manner.The progress report generated from the linways is send to the parents.If a student is not able to appear for examination due to medical or any genuine reason examination is conducted for that student as per norms, provided that he/she submits application with proper documents

A model examination is conducted at the end of the semester so that the students can improve their final internals.

File Description	Document
Any additional information	[View Document](#)

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

Programme outcomes denote the skills and knowledge that the students will gain after the completion of the programme.These are set by the regulatory authorities which includes twelve well defined POs.

Course outcomes represent the skills and knowledge the students will acquire after the completion of the course. COs are framed by the faculty experts for each course.

PSOs are formulated by the respective department and then presented in the Department Advisory Board (DAB)meeting which has representation from all the stakeholders such as Parents, Industry experts, Faculty representatives, Students etc. The Department Advisory Board receives suggestions/feedback from the stakeholders and finalizes the PSO. If required, the PSOs are liable to change or modify if incase its

required case in the future, having held committee meetings.

The COs which are created by the faculty are communicated to students at the beginning of the course .Along with this course objectives ,POs and PSOs are also explained.The COs are also displayed in the college notice board.

The POs and PSOs are made available on the college website and are also displayed on the display boards.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	[View Document](#)

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

Response:

The institution evaluates itsCO's, PO's and PSO's by the following ways.

1.**Direct assessment method**

2.**Indirect assessment method**

In direct assessment method performance of the students is evaluated through **internal assessment and external assessment** methods

Internal assessment includes three Internal tests and a minimum of two assignments.

 External assessment includes the end semester University examination.

For each course CO-PO mapping is calculated in a prescribed format fixed by college IQAC. Question paper is prepared such that each question is mapped with its respective CO. An evaluation data sheet is prepared for each internal test and assignments with marks obtained for the student per question is entered under the respective CO associated with that question. Having given desired weightage for each COs by setting three levels (80% above -Level 3,70-80%-Level 2,60-70%-Level 1) initially. Faculty assign a weightage for the COs based on the previous student performance and nature of the course. After finding the weightage for all the COs from the internal assessments data sheet, normalized marks for each CO is calculated. **University examination attainment level is also calculated by assuming equal weight age for each CO**.

In **indirect assessment methods** a course exit survey is conducted for each course, by setting up a question pattern relevant to that particular course. The final CO attainment is calculated giving different weightage for direct and indirect assignment. The direct assessment is given weightage of 80% which includes internal assessment (30%) and university exams (70%). The remaining 20 % of the assessment is taken

from the course end survey .From the CO PO mapping of a particular subject we are able to assess the PO attainment by calculating the weighted average of COs attained. It is the reflection of students' performance in their internal /external evaluation. These methods provide a sampling of what students acquired from the course and provide strong evidence of student learning level.

File Description	Document
Upload any additional information	[View Document]

2.6.3 Average pass percentage of Students during last five years

Response: 84.52

2.6.3.1 **Number of final year students who passed the university examination year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
63	63	1	1	1

2.6.3.2 **Number of final year students who appeared for the university examination year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
108	98	1	1	1

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	[View Document]
Upload any additional information	[View Document]

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.49

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 0.38

3.1.1.1 **Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
.378	0	0	0	0

File Description	Document
List of endowments / projects with details of grants	[View Document](#)
e-copies of the grant award letters for sponsored research projects / endowments	[View Document](#)

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 3.92

3.1.2.1 **Number of teachers recognized as research guides**

Response: 2

File Description	Document
Institutional data in prescribed format	[View Document](#)

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 4

3.1.3.1 **Number of departments having Research projects funded by government and non-government agencies during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
1	0	0	0	0

3.1.3.2 **Number of departments offering academic programes**

2019-20	2018-19	2017-18	2016-17	2015-16
5	5	5	5	5

File Description	Document
Supporting document from Funding Agency	[View Document](#)
List of research projects and funding details	[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

Providence College of Engineering admitted the first batch of students in 2015 July. Before this batch entered final year in July 2018, the College appointed a person of vast research experience as Dean of Research & Development. He has published 200+ articles, completed funded projects of 11 Crores and held the post as Director of Mission Oriented Research Cluster in Deepwater Technology at the Universiti Teknologi PETRONAS in Malaysia with 70th Rank in Asian Universities. He prepared research-focused guidelines for completing the final year projects. This enabled every project group to prepare research article. Some of these projects developed into innovative projects.

Dean's research presentations were held every semester for the faculty members and for the final year students. This gave detailed instructions on conduct of projects, writing project reports, preparing funded project proposals, preparing PhD proposals and understanding the indexing of publications. Also, monthly R&D meetings were held where each departmental representative gave the status of project progress as well as the research directions of each faculty member. Based on this input, corrective and progressive directions for each faculty member as well as for each project group were suggested and implemented.

Providence College has succeeded in publishing 75 papers, out of which 42 are SCOPUS and/or WOS indexed. Also, governmental funding has been received for four student projects. Many more such funding are expected for the current year.

Providence College has established networking with many institutions and industries in national and international level. Some of them are maturing into MoUs. Using this collaboration, one graduate from

the first batch has secured admission for MSc in Civil Engineering with scholarship at the Universiti Teknologi PETRONAS in Malaysia.

The faculty members and the students have been encouraged to attend online seminars and webinars on research methodology, innovation and start-up. Few such workshops have been conducted by us also. At all levels starting from first year, creativity and innovation talents are recognized and encouraged.

File Description	Document
Upload any additional information	[View Document]

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 9

3.2.2.1 **Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
6	3	0	0	0

File Description	Document
Report of the event	[View Document]
List of workshops/seminars during last 5 years	[View Document]
Any additional information	[View Document]

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 1

3.3.1.1 **How many Ph.Ds registered per eligible teacher within last five years**

Response: 2

3.3.1.2 **Number of teachers recognized as guides during the last five years**

Response: 2

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 1.02

3.3.2.1 **Number of research papers in the Journals notified on UGC website during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
8	22	9	3	3

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.38

3.3.3.1 **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
6	8	3	0	0

File Description	Document
List books and chapters edited volumes/ books published	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The sole aim of the National Service Scheme (NSS) is to provide hands on experience to young students in delivering community service. By getting actively involved in high profile extension activities in needy villages for the last five years, our college was able to sensitize our students to social issues contributing to their holistic development. They understood the community in which they worked and also themselves in relation to their community. They identified the needs and problems of the community and involved greatly in problem-solving. They developed among themselves a sense of social and civic responsibility and utilised their knowledge in finding practical solutions to individual and community problems. They developed competence required for group-living and sharing of responsibilities, gained skills in mobilising community participation and acquired leadership qualities and democratic attitudes. They were able to develop capacity to meet emergencies and natural disasters and practised national integration and social harmony. Few projects are listed below.

1. **NATIONAL DIGITAL LITERACY MISSION (NDLM) {From 20-06-2016 to 20-07-2017}**

It's a central government mission programme for making all Indians digitally literate.The program with 57 student volunteers were conducted in 500 houses at Ala Grama Panchyath.

1. **"SAMOOHATHINORU KAITHANGU"-PROJECT 2016**

NSS Providence College unit formed a new project known a Samoohathinoru Kaithangu, for helping poor patients who suffers from severe diseases and health issues.The project inaugurated by the college Chairperson by helping a Kidney failured 20 yr old girl Anisha with Rs 20,000.As a part of the second project of Samoohathinoru Kaithangu, NSS unit raised a fund of Rs 50000/- for Subhash, a 5 year old boy suffering from Erwing sarcoma (bone tumor).

1. **SAGY – CERTIFICATE OF APPRECIATION**

Providence College successfully completed a survey on overall development of Aryad Grama Panchayat adopted by Mr. K C Venugopal M P under SAGY.Studies on eleven SAGY projects were conducted by NSS technical cell during 7 day camp at Aryad grama panchayath.Based on the survey report, NSS presented a road map for overall development of Aryad Grama Panchayath in a Vikasana Seminar.The team NSS – SAGY won a special appreciation by AICTE for the best project implemented at SAGY Phase 1

1. **SWACHH BHARATH ABHIYAN SUMMER INTERNSHIP 2018**

After the successful completion of SAGY phase 1, the NSS team of Providence completed 100 hours of

summer internship – Swatch Bharath Abhiyan. They were engaged in activities like awareness campaign, street plays, swtchatha mela, door to door meeting on sanitation hygiene, toilet usage and hand wash.School level rallies, wall paintings, waste collection drives development of compost pits were also organised.

1. **Pradhan Mantri Kaushal Vikas Yojana** (PMKVY)

The objective of this scheme is to provide training to the unemployed youth in various skill sector which will help them in securing a better livelihood. Under this scheme, we conducted one free training program for 25 persons as Mobile Phone Hardware Repair Technicians and another free training program for 20 persons as Assistant Surveyors.

File Description	Document
Upload any additional information	View Document

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 12

3.4.2.1 **Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
1	6	3	1	1

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 198

3.4.3.1 **Number of extension and outreached Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
25	35	82	37	19

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 72.09

3.4.4.1 **Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
455	129	320	204	54

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 116

3.5.1.1 **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
74	22	17	3	0

File Description	Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 3

3.5.2.1 **Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	3	0	0

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

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Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

The college campus is situated in 10.9 acres of land with a total built up area of 11454 sq. m, which inhabits well-furnished Offices and Departments, ICT enabled classrooms, seminar halls, a Boardroom, well-equipped labs, central library, central computing facility and a canteen commissioned as per the norms of the statutory bodies. The campus also consists of Football, Basketball and Badminton courts.

The college has adequate computational facilities on the campus and the students can undergo different online courses. Besides the college is also an approved National Test Centre of National Testing Agency (NTA) through which the registered candidates can take tests and practices for online exams like JEE, RRB and Bank Test etc.

Available Facility Details

- **Classrooms, Tutorial Halls and Seminar Halls:** The institution is equipped with well-furnished, well-ventilated and spacious classrooms for conducting theory classes. The institution has 22 classrooms, 4 seminar halls, 9 tutorial rooms, 1 drawing hall and 1 boardroom. All the class rooms and seminar halls are ICT enabled with projectors and LAN/ Wi-Fi facility to ensure an effective teaching learning process.

- **Laboratories and Workshops:** The Laboratories and workshops of all departments are well equipped and well maintained for carrying out curriculum-oriented practical sessions and projects. There are 17 laboratories and 5 workshops in the institution. High configuration machines, equipment and software are installed in these Labs and workshops.

- **Computing Equipment:** The institution has 6 computer Labs with 167 computers for the teaching-learning process. They are updated on a regular basis depending on the need for computations. Sophisticated softwares like AutoCAD 2020, Autodesk, Fusion 360, Tekla, Matlab, Keil etc are available in the labs. A campus wide Wi-Fi network with an internet speed of 90 MBPS is also available.

Besides, the institution has a central library that holds a significant volume of books, magazines and newsletters along with an adequate number of national and international journals. The library is well equipped with a digital library which becomes an added advantage for students and staff members for improving their academics.

Sl. No	Facility	Total Numbers	Total Area (Sq. m)
1	Classrooms	22	1389
2	Tutorial rooms	9	363
3	Laboratories	22	2577
4	Central Library	1	1500
5	Central Computing Facility	1	150
6	Seminar Hall	4	449
7	Drawing Hall	1	133
8	Boardroom	1	40
9	Faculty Room	9	464
10	Health Centre	1	20
11	Exam Cell	1	35

File Description	Document
Upload any additional information	View Document

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

Response:

The college has the following facilities for sports and games. A multipurpose stadium with an area of 4800 sq.m is available for sports and games including football and cricket. The stadium has adequate facilities for conducting intercollegiate tournaments. A basketball court with an area of 576 sq.m and 4 badminton courts each having an area of 82 sq.m. are available in the college. Indoor courts for table tennis and badminton are available. The college provides facilities such as a Yoga centre and Multi-Gym for physical and mental exercise. With the help of these facilities our college teams have achieved so many victories in the university level championships and other intercollegiate tournaments.

Outdoor Sports and Games Facilities

Sl. No.	Name	No. of Courts	Size in Meters(m x m)	Year of Establishment
1	Football Ground	1	80 x 60	2015
2	Basketball Court	1	32 x 18	2017
3	Cricket Field	1	80 x 60	2015
4	Badminton	4	13.4 x 6.1	2015

Indoor Sports and Games Facilities

5	Indoor Badminton court	2	13.4 x 6.1	2016
6	Table tennis	1	2.74 x 1.5	2018
7	Caroms & Chess	1	6. 3 x 5	2018

Gymnasium

8	Gym (men)	1	16 x 10	2020
9	Health Club (women)	1	6x4	2020

In order to organize cultural activities the following facilities are specifically available in the college:

Seminar hall, Open-air auditorium with a stage, Green rooms, Courtyard, etc.

Gymnasium

Equipment available in the gymnasium are listed below

- Weight lifting

- Dumbbell sets

- Bench Press

- Leg Press

- Push-up stands

Yoga & Meditation Room

In order to practice Yoga and Meditation for students and staff of Providence College of Engineering, a special room is arranged in the central block which is a calm and quiet area with all necessary facilities. Special thrust is given in the campus for Yoga and Meditation for maintaining physical and mental wellness.

Cultural Activities

The institution is providing special importance for developing the extracurricular skills of the students. The college has provided musical instruments and a Public Addressing system for the practice of the students and they can utilize the Seminar Halls and practice rooms for various events. **College Arts Day** is being celebrated with a number of competitions and the students can perform various cultural programs, theme shows and musical bands etc.

National Level Intercollegiate Techno-Cultural competition "RASAM", a two day program is held in the institution every year. Students from all over India participate in various Technical and Cultural competitions conducted for the same. Cash awards and certificates are distributed to the winners of every event. Fully decorated and closed stage along with special light & sound effects and LED walls are arranged during the Arts Day and Technical Fest days.

File Description	Document
Paste link for additional information	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. *(Data for the latest completed academic year)*

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 26

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	[View Document](#)
Paste link for additional information	[View Document](#)

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 79.41

4.1.4.1 **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
79.15	437.5	1900.9	569.2	554.25

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	[View Document](#)
Upload audited utilization statements	[View Document](#)
Upload any additional information	[View Document](#)

4.2 Library as a Learning Resource

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

Response:

The Central Library of Providence College of Engineering (PRC) caters to the needs of students, teachers and researchers. The Central Library has a collection of 9409 books covering various branches of Engineering & Technology, Management Studies and general reading. The Central Library is located in the first and second floor of the Newton Hall and has an area of 1500 sq.m.

Reading room of the Central Library has a seating capacity of 100 where students can read, write and prepare their course materials. Reference section of the library is located along with the reading room, where we keep a single copy of all books. Journals, Magazine and Newspapers are kept in their respective areas at the reading room. Reprographic and print services are provided as a part of the library. Our e-library consists of 22 computers where students can access e-journal databases and NPTEL courses along with the normal internet browsing.

PRC Central Library is partially automated with an **Integrated Library Management Software named KOHA** an open source software with MySQL database back end with cataloguing data stored in MARC and accessible via Z39.50 or Search retrieval via URL (SRU). KOHA has many features such as:

- Full MARC 21 support for professional cataloguing
- Customizable OPAC
- Barcode Printing

- Export & Import records, ISO 2709
- Circulation System

Name of ILMS Software : KOHA

Nature of Automation : Partially Automated.

Version : 16.11.04.000

Year Of Automation : 2015

The central library functions are fully integrated with the **Barcode System**, where all the books and ID cards of the students and staff are barcode labelled . Two barcode scanners in the library integrated with the ILMS software makes the circulation process fast and convenient for the users.

Online Public Access Catalogue (OPAC) is also available in the library. By entering keywords like Author, Title, Accession Number etc. users can search their books and can view the availability of that particular book, its due date and number of copies etc.

Facilities and services available in the library:

- General Reference
- Document Lending Service
- Reprography
- User Education
- E-Library

Apart from these services, the Central library is also conducting Current affairs awareness programs , Vocabulary enrichment programs , Quiz programmes, Book reviews and Observation of Important Days.

The Central Library of Providence College of Engineering was established in 2015, which is enriched with a collection of **9409 books in 1563 titles, 30 National journals, e-books, Magazine** etc. Library has a special collection of reading materials in History, leaders, Motivational and books for competitive examinations. It also contains an encyclopaedia of Britannica. The Central Library has a special collection of general books which contains international bestsellers of renowned authors.

File Description	Document
Paste link for Additional Information	[View Document](#)

4.2.2 The institution has subscription for the following e-resources

1. e-journals
2. e-ShodhSindhu

    3. Shodhganga Membership
    4. e-books
    5. Databases
    6. Remote access to e-resources

Response: B. Any 3 of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 6.8

4.2.3.1 **Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
0.88	6.91	9.86	11.55	4.82

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year

Response: 16.02

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 83

File Description	Document
Details of library usage by teachers and students	[View Document](#)
Any additional information	[View Document](#)

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

For the smooth conduct of the curricular and non-curricular programs, the college frequently updates its IT facilities. Besides the central computing facility, each Department has its own computer facilities based on the strength of students. There are 212 desktops, 107 laptops and 4 physical servers are available in the campus. 93 desktops are powered by core i5 processors and others use core i3 processors. All the desktops are having 18.5 LED monitors, 4 GB RAM and 500 GB HDD.

Sl. No.	Date of Purchase	Number of Computers	Description
1	23-12-2020	107	Laptops, Acer, Ryzen 5 Processor
2	30-08-2016	55	Acer, COREi3, 4Gb, 500GB WIN 10
3	20-07-2016	50	Acer VT M200,COREi3, 4Gb, 500GB WIN 10 Pro
4	10-10-2015	5	DELL 3020, 4GB, 500 GB, WIN 8 PRO
5	03-09-2015	1	DELL 3020, 4GB, 500 GB, WIN 7PRO
6	22-07-2015	4	DELL 3020, 4GB,500 GB, WIN 8.1 PRO
7	19-03-2015	93	DELL OPTIPLEX 3020, 4GB,500 GB, WIN 8.1 PRO
8	17-06-2015	4	DELL 3020, 4GB,500 GB, WIN 8.1 PRO
Total Number of Computers		**319**	

Software

The institution uses various licensed software to cater the needs of both academic and administrative departments. **Linways AMS** is used for academic administrations such as attendance entry, timetable setting, preparation of internal marks, keeping student profile and continuous internal evaluation.

Internet and Wi-Fi

In 2016, the college had only a broadband connection of 10 Mbps bandwidth. In **April 2017**, a leaseline connection with bandwidth **50 Mbps** was taken from Asianet satellite communications. In **July 2018**, under the NMEICT scheme BSNL broadband connection was upgraded to **40 Mbps** bandwidth. **At present the total bandwidth of the leased line connections is 90 Mbps.**

The campus LAN is using **inter building fiber connectivity**. All the classrooms and seminar halls in the campus have LAN connectivity which is done with Cat 6 cables.

The entire campus is Wi-Fi enabled and registered users can connect their laptop or other computing facilities at any time to access the internet. **20 Wi-Fi access points** are installed at various locations in the campus for enabling seamless wireless networking which covers all the classrooms, laboratories, administration areas and canteen.

Four physical servers powered by Xeon processors are installed in the campus. Individual departments are provided with VM servers. Peripheral devices like printers, high speed duplex photocopier machines, scanners, video recording facilities etc. will help the students, faculties and others to manage e-resources. 21 printers and 2 photocopier machines, installed at various departments in the campus.

In order to conduct and manage the university examinations, the college has facilities like internet connectivity, one high speed duplex printer and CCTV surveillance. To provide security and safety **155 HD CCTV** cameras have been installed at various locations in the campus to provide security and safety. The system has one month back up facility.

The college has an **EPABX system** for internal telephone communication. The campus **PA system** is installed for giving announcements and audio streaming is also maintained as a part of IT infrastructure.

File Description	Document
Paste link for additional information	[View Document](#)

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 3.09

File Description	Document
Upload any additional information	[View Document](#)

4.3.3 Bandwidth of internet connection in the Institution

Response: A. ?50 MBPS

File Description	Document
Upload any additional Information	[View Document](#)
Details of available bandwidth of internet connection in the Institution	[View Document](#)

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 13.64

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

2019-20	2018-19	2017-18	2016-17	2015-16
115.06	107.99	88.42	65.25	38.64

File Description	Document
Upload any additional information	[View Document](#)
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	[View Document](#)
Audited statements of accounts	[View Document](#)

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

Response:

The college has a system for the optimal utilization of physical and infrastructural facilities.

A brief idea about the various systems and procedures are given below.

Procedure for information technology management systems (PCE/QPP/25)

The responsibility of the IT Management rests with the System Admin. All computer equipment of the

college is on a regular replacement cycle of 10 years.

All the computer equipment of the college is maintained in-house. If a hardware problem is suspected, the user should call the System Analyst during normal business hours for assistance and if hardware service is indicated, required arrangements will be made by the Technician.

The primary considerations for finalizing configuration of desktops, printers and portable computers are:

- Ease of connectivity of the college network.
- Consistent performance of all integrated components in the network environment.
- Successful in-house experience with the chosen product and configuration.
- Serviceability by the computer maintenance department.
- Maximum campus lifetime of the computer and the equipment.

In the case of printers, a well documented procedure for utilizing and maintenance is given to the users. The physical problems related to the printers and toner replacement will be done by the IT department.

Wi-Fi Policy: The purpose of this policy is to define standards, procedures and restrictions for connecting to PCE's internal network or related technology resources via any means involving wireless technology.

Disposal procedure of all IT assets and equipment will be centrally managed and coordinated by PCE's IT department. PCE's IT Department is also responsible for backing up and then wiping clean of college data from all IT assets slated for disposal, as well as the removal of college tags or identifying labels.

Procedure for Purchase of Lab equipments and Consumables (PCE/QPP/28)

- The Lab- in -Charge shall submit a request to the principal through the head of the department for sanctioning the purchase.
- Principal will verify the request and if satisfied about necessity, a report will be submitted to the Chairperson for sanction.
- The Finance manager will arrange to send letters to the firms inviting closed quotations specifying the last date.
- On receipt of the quotations, the head of the department shall arrange to prepare a comparative statement in a specified form and recommend the name of the firm from which the items are to be procured.
- The finance office will arrange for negotiation, if any, with the firm and to get approval from the chairperson and to place supply orders from the firm.
- Bills of purchase after entering in the stock register maintained in the finance office shall be forwarded to the principal/ finance office for processing payment.

Procedure for maintenance of the Lab/Workshop/ General Equipment (PRC/QPP/29)

Equipment documents and records are an essential part of the quality system. The policies and procedures for maintenance should be defined in appropriate documents and keeping good equipment records will allow for thorough evaluation of any problem that arises.

Each major equipment will have its own equipment maintenance document. Each piece of equipment should have a dedicated logbook documenting all characteristics and maintenance elements. It will contain:

- Preventative maintenance activities and schedule
- Recording of function checks and calibration.
- Any maintenance performed by the manufacturer.
- Full information on any problem that the instrument develops, subsequent troubleshooting activity, and follow-up information regarding the problem.

The Laboratory in charge shall be responsible for ensuring that all laboratory equipment is maintained in good condition. The laboratory in charge shall periodically issue updated maintenance schedule assignments as per the maintenance logbook document.

Actions on equipment which needs external maintenance are initiated, followed, and executed by the Laboratory in charge in consultation with the HOD/Principal.

Procedure for management of library services (PCE/QPP/11)

The Librarian holds the responsibility for library management. A portion of the Library's budget is allocated to each academic area in order to provide a selective input into the Library's holdings. The final authority for selection rests with the top-level Management.

The library advisory committee has the primary responsibility for development of book collection.Teaching faculty in each department also shall select materials to build the collection.

A book vendor is selected on the basis of their prompt, reliable and satisfactory service. Quotations are invited from various book vendors and are chosen based on the highest discount rates offered for each publisher and the period of supply.

All the bibliographic information of books and other library materials are stored in electronic format in a database on the library server computer, and this database is shared with other computers of the library.

The Library is managed by a team of professionally qualified personnel. During scheduled library hours, there shall be trained staff on duty to supervise and to assist students with Library functions. These staff shall be competent both to use and to aid in the use of the Library technologies and resources.

Sports Advisory Committee

All the suggestions and requirements related to the physical facilities of sports and games are processed by this committee. The sports facility can be utilized from morning 6:00 AM to 8:00 AM and evening 5.00 PM to 7.00 PM for students. A stock register and an issue register are maintained to ensure the proper handling of the sports items. Stock verification of the sports items is conducted at the beginning of each academic year. Regular maintenance of the play area is conducted under the supervision of the Physical education director.

Campus/Classroom Maintenance:

The campus/classroom maintenance such as cleaning, beautification, gardening etc. of the college is done by the housekeeping staff and casual labourers under the supervision of the Maintenance Department.

Bus and Transportation Committee:

The committee ensures a safe and comfortable transportation facility for the students and staff. The committee gives periodic recommendations to the authorities based on the complaints and suggestions received.

File Description	Document
Upload any additional information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 5.2

5.1.1.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2019-20	2018-19	2017-18	2016-17	2015-16
16	23	20	16	5

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	[View Document](#)
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	[View Document](#)

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 26.45

5.1.2.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2019-20	2018-19	2017-18	2016-17	2015-16
91	125	67	27	59

File Description	Document
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	<u>View Document</u>

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. **Soft skills**
2. **Language and communication skills**
3. **Life skills (Yoga, physical fitness, health and hygiene)**
4. **ICT/computing skills**

Response: B. 3 of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	<u>View Document</u>
Any additional information	<u>View Document</u>

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 10.51

5.1.4.1 **Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
134	110	0	0	0

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<u>View Document</u>

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. **Implementation of guidelines of statutory/regulatory bodies**
2. **Organisation wide awareness and undertakings on policies with zero tolerance**

3.Mechanisms for submission of online/offline students' grievances

4.Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 9.23

5.2.1.1 **Number of outgoing students placed year - wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
30	18	0	0	0

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 9.26

5.2.2.1 **Number of outgoing student progression to higher education during last five years**

Response: 10

File Description	Document
Upload supporting data for student/alumni	\text{View Document} View Document
Details of student progression to higher education (Data Template)	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 1.5

5.2.3.1 **Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations,** *etc.)***) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
0	3	0	0	0

5.2.3.2 **Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
46	40	0	0	0

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 5

5.3.1.1 **Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
4	1	0	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	[View Document](#)
e-copies of award letters and certificates	[View Document](#)

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

Response:

The College Senate is a student body that represents the interests of students in College Administration. It is responsible for organizing various student activities. The Senate consists of the Speaker, Deputy Speaker, Joint Deputy Speaker, General Secretary, Deputy General Secretary, Joint General Secretary, Magazine Editor Deputy Magazine Editor, Cultural Secretary Joint Cultural Secretary, Sports Secretary and Joint Sports Secretary. The Principal, the Staff Coordinator of Senate, along with the Vice-principal and faculty members, provide guidance to the student leaders of the Senate. All the student office bearers and representatives are elected by the students through a democratic and transparent process.

Some of the important events organized by the senate are :

CORONA is the annual cultural athletic fest of Providence College of Engineering is a perfect platform to share knowledge and astounding audience with swashbuckling performance. Events ranging from spectacular musical galas, fine arts skills, mind-boggling literary events to the exhilarating speed of athletics and many more are exhibited. To build up a competitive spirit students are divided into Topaz, Ruby, Emerald and Sapphire houses. Techno Cultural festival & College Arts RASAM is an Annual Intercollege Techno-Cultural programme of the college conducted normally on February/March of the year. This programme initially started during the year 2018 and then onwards it's been the college's pride event. The smooth functioning of the event is facilitated by the various committees and their members. The programmes normally extend for two days and a healthy number of participants visits and take part in various events. Events are normally classified into technical, cultural and extra-curricular programmes. Each department of the college holds the responsibility of its own technical activities while cultural/extracurricular events are coordinated by the College Senate. This programme is not treated as a competition event whereas it's a platform to showcase the talent of students which comprises group dance,

solo dance, group song, solo song, instrumental music, one-act play, college band etc. The Providence Cup is an annual seven - a - side football tournament on knockout basis where teams from colleges across Kerala take part. The winners, First Runner Up and Second Runner Up are awarded trophies and cash prizes of Rs. 50000/-, Rs. 30000/- and Rs. 2000/- respectively.

As per the University Curriculum, in each semester a separate Class committee and Course committee is conducted during the beginning and end of the semester to review the academic matters. HOD, subject handling faculties, class advisors and student representatives are the members of the Class Committee. The committee review all the matters related to all courses in the semester and make possible steps required to revise the teaching-learning process. A separate Course Committee is conducted for common courses. The committee consists of a Convenor (faculty not handling the course), the Course Coordinator (faculty handling the course) and student representatives from each class. This committee reviews the matters associated with a particular course and make possible steps to improve the performance of students

File Description	Document
Paste link for additional information	[View Document]()

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 2.8

5.3.3.1 **Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
7	5	1	1	0

File Description	Document
Report of the event	[View Document]()
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	[View Document]()

5.4 Alumni Engagement

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

Response:

The Providence College of Engineering Alumni Association started in 2019 after the first batch passed out from the college. However, we are officially registered and started functioning in 2021 under and according to the provision of the Travancore Cochin Literary Scientific and Charitable Societies Act 1955.

The objectives of the Association shall be

1. to maintain the contacts of the alumni with the alma – mater
2. to foster the relationship between the past and the present students through interaction with the employed alumni
3. to enrich the technical and professional knowledge of the present students through interaction with the employed alumni
4. to give an opportunity to the alumni to take part in the responsible tasks of building up and maintaining the tradition of the institution
5. to enable the student to acquire industry-specific knowledge and problem-solving skills
6. to motivate the current students of this institution with their studies by instituting endowments, prizes, scholarships, book banks etc
7. to establish institute- industry-community relationship
8. to organize and conduct programs useful for the current students, old students and the institution
9. To accept grants and donations from the general public, business organizations and employed alumni. For the furtherance of the objectives of the Association
10. To encourage and appreciate the alumni on their professional and technical achievements
11. To do all such things which are necessary and conducive to fulfil the above objectives

This association provide a forum for the old students of the College to meet and discuss matters of common interest. The Executive Committee of the alumni association consists of a President, a Secretary, a Treasurer and 13 other members. Continued relationship with the alumni is maintained through the college email address and social media groups.

Regular interactive sessions with alumni are arranged in all the departments in the form of student interaction, technical inputs, syllabus feedback session, career orientations etc. These classes give a realistic idea to students about career/entrepreneurial opportunities after graduation. Many alumni are involved in assisting placement cell in finding a suitable placement for young graduates every year.

File Description	Document
Upload any additional information	[View Document](#)

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: E. <1 Lakhs

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

Vision & Mission

The Providence College of Engineering is established with a vision to be a world-class institution that enables citizens to contribute to their community.

Vision:

To be a premier institution that prepares professionally competent and socially committed engineers with human values.

Mission:

- To generate an outstanding knowledge base of scholarship and research.

- To create socially responsible professionals by imparting human values and leadership qualities.

- To inspire the learners to continually develop their knowledge and innovative talents through lifelong learning.

Nature of Governance:

The institution is recognized by the All India Council for Technical Education (AICTE), approved by the Government of Kerala, and affiliated with APJ Abdul Kalam Technological University. The Governance of the institution is strictly following the Vision and Mission. The system is effectively decentralized for better governance and performance. The major decisions which have a bearing on the function and the goal of the college are done by the Governing Council which includes the Chairperson of the institution. The Principal, Vice Principal, and all the HoDs ensure the proper implementation of the decisions and directions given. The Management gives sufficient freedom to the Principal, who is the academic head of the institution to function to fulfill the Vision and Mission of the institution. HoD is delegated with department-level authority. The responsibilities are communicated to the faculty members through regular staff meetings. The research activities are coordinated by the R&D department headed by Research-Dean and supported by the faculty members from all the departments. The office administration of the college is headed by the Administrative Manager and the Administrative Officer.

Modernization of the current facilities, expansion of infrastructure of laboratories, library resources, classrooms, seminar halls, and sporting facilities are the normal criteria in the annual plan of the institution. The planning of industrial visits, conferences, workshops, seminars, FDPs, association activities, club activities, sports tournaments, recruitment, and functions are finalized by the College Advisory Board after

discussions with team conveners and student representatives. The head of the institution takes decisions in the academic activities in tune with the regulation of the affiliating Universities. Governing Council, College Advisory Board, Academic Council, PTA, Department Advisory Board, and various other committees conduct the meeting regularly. Faculty meetings with the HoD play a crucial role in the formulation of curricular and non-curricular activities and the points/suggestions of the faculty meetings are deliberated at College Advisory Board meetings before approval. The Principal's subsequent meetings with the top management and with the Governing Council ensure that all the information and suggestions reach from the bottom to top and from top to bottom travel in a smooth manner.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

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

Response:

Institution Functioning

The institution follows the decentralization in working through delegation of authority. Personnel at different levels implement the decisions. The delegation of authority can be organized in the form of a pyramid.

Top-level managers are responsible for controlling and overseeing the entire institution. It includes the Chairperson, Executive Directors, Director, Principal, Dean, and Vice-Principal. The College Advisory Board assists the Chairperson concerning broad guidelines, policies, and frameworks for the improvement of the quality of education in the institution. The management through the Principal involves the faculty members in various activities related to the development of the Institute. The Principal heads the academic and administrative activities of the Institute. He forms various committees and appoints faculty members.

Middle-level managers act as an intermediary between top-level management and low-level management. It includes the Head of the Departments (HoD), HR, Placement officer, IQAC Coordinator, Controller of Examination, Librarian, and Physical Education Director. They help in the execution of institutional plans.

Low-level managers include faculty, non-teaching staff, and others. They help the middle-level managers by coordinating the activities delegated to them.

The college does promote a culture of participative management. In all academic and non-academic activities, college is following participative management. Every year, an academic planner is prepared in a meeting as per the academic calendar received from the university. The institute follows a committee system for the implementation of all its decisions. One of the committees is the Research and Development (R&D), which is taken as the case study for showing, practicing participative management in the institution. The vision of the R&D is to make this institute to be an R&D Centre of Excellence and a

Prominent Research University in India by 2030. The missions of the R&D are

- To build an adequate pool of technology expertise and resource persons

- To identify, formulate and develop innovative breakthrough technologies and solutions in response to the rapid changes and demands of the society, thus supporting PRC's Vision

The R&D committee is headed by Research Dean and includes faculty representatives from all the departments. The R&D committee meetings are held once a month. The R&D committee published the guidelines for B-Tech final year projects and seminar courses. The guidelines are revised in each academic year based on the suggestions received from students and faculty from all the departments. A template for the project report is also published by the R&D. The committee continuously reviews the final year project work of the students. The committee motivates the students and faculty to publish their work in Scopus/SCI-indexed journals and also applicable for funding. Currently, 32 research articles are published in Scopus indexed journals/conferences and four final year projects got a grant from KSCSTE. Thus the faculties and students are directly exposed to fulfilling the vision of the institution.

File Description	Document
Upload any additional information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

We believe that a clean, green and a pollution free environment provides a pristine backdrop for an effective learning experience. We have therefore left no stone unturned in the development of a green ecosystem to provide enrichment to the mind, heart and soul of the students. All the avenues and roads within the Institution campus are therefore adorned with trees bearing dark green leaves and beautiful flowers to create a homogenous feeling amongst everyone within the campus.We also have lush green lawn sprawling throughout the campus which instills the beauty and charm over the campus and so inculcating awareness towards nature in their minds.Green gardening strategies like mulching, drip irrigation and hydrozoning, land utilization through agroforestry or kitchen gardening, tree density, land permeability, cultivation using native, drought-tolerant plants to maintain the campus with its usefulness is encouraged. These zones have been developed since it has been proven that oxygen is essential for the holistic development of the young minds. Green mobility and infrastructure provisioning it, indoor plantations, use of non-toxic chemicals, campaigns/workshops encouraging students and staff to switch to non-motorized transportation or public bike sharing, etc We staunchly endorse the policy of environment conservation and stand deeply rooted in our commitment to set new standards of environmental preservation. We possess a deep and instilled allegiance to the conservation of energy resources. The campus stays committed to the maintenance of the ecological balance in the region . In order to achieve this, we persevere for the utilization of clean energy. It shall steer for the regulation, involvement and inculcation of a policy of sustenance of environment and stem the usage of artificial energy resources. We

are endorsing and enforcing measures to make the campus-wide a zero carbon campus. Passive building design strategies, energy efficient fixtures, renewable energy generation, campaigns/workshops encouraging responsible energy use Rainwater Harvesting In another step towards the preservation of the intricate water table in the tableland, the campus buildings have been made compatible for rain water harvesting. Utilizing Natural Light The building architecture is designed in such a manner that permits the free flow of air and allows natural light to cover all the corners of the building. Towards Cleanliness We educate the students about community cleanliness and make them keep themselves and their immediate neighborhood clean. Waste Segregation, inorganic waste management, organic waste treatment, workshops educating students regarding waste segregation, single-use plastics, etc. and policies adopted for solid waste minimization and management. We also adhere to the Government's decision to make the campus a Non Smoking Zone. Apart from these parameters, policies such as specifying sustainability criteria in procurement rules are low hanging fruits which do not always require cost intensive physical infrastructural changes but can be as impactful in bringing about resource efficiency and sufficiency. The lushfulness which features out to make the students move in a environment updating their vision and maintaining the safety of the students as well .A layout has been provided to avoid the water-logging inside the campus.

File Description	Document
Upload any additional information	[View Document](#)
strategic Plan and deployment documents on the website	[View Document](#)
Paste link for additional information	[View Document](#)

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

Response:

PRC was established by the MGM charitable society in the year 2015.The college owes its existence to the late Patron Shri George Mathew.The college is managed by M.G.M.Charitable Society,Chengannur. A group of visionaries and educationalists envisaged the emergence of a Technical Institution in the rural area of Chengannur,Kerala,which was aimed to promote the weaker section of the society by providing quality education at the highest level.The college has a team of of highly qualified,committed and well experienced faculty in various fields of engineering and also has the state of the art infrastructure,well equipped laboratories with modern equipments/instruments, digital library and high speed Internet facility to ensure quality education.

From the outset, PRC follows a vision and mission educating the the whole generation imbued with real virtues and values of life.The primary objective of the institution is to promote technical education and research in the field of engineering and to instill the young citizens of India with required knowledge,skills and attitude to excel in the field of engineering..The college focuses on the overall development of students,empowering them to face future challenges and extend the dynamicity of their profession by implementing the skills acquired from engineering program.The entire PRC team works towards setting the institution into a centre of excellence.

The leadership provides clear vision and mission to the institution.The functions of the institution and its academic and administrative units are governed by the principles of participation and transparency.Formulation of development objectives,directives and guidelines with specific plans for implementation by aligning the academic and administrative aspects improves the overall quality of the institutional provisions. The college has various committees,including Innovation and Entrepreneurship Development Cell and Student Senate.The students are members of various technical societies and clubs for enhancing their creativity through life-long learning.The college has a strong alumni in India and overseas and plays a vital role as a key stakeholder of all the programs.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP (Enterprise Resource Planning) Document	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

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

Response:

The following are the welfare measures extended to the teaching and non-teaching staff of the college:

1. Provident Fund for the non-teaching staff.

2. ESI benefits for the non-teaching staff.

3. The teaching and non-teaching staffs of the college are eligible for availing Casual Leave of 12 days per year.

4. The teaching and non-teaching staffs of the college are eligible for availing of Vacation Leave of 30 days per year.

5. Duty Leave facility for attending workshops /conferences/FDPs/seminars.

6. Faculty doing part-time Ph.D. is eligible for availing Research Leave of 10 days per year.

7. College allows maternity leave to eligible lady staff as per the rules of the government.

8. Provided house construction fund for one of the non-teaching staff.

9. Provided flood relief fund for affected non-teaching staff.

10. Financial support is provided for attending, conferences, workshops and seminars.

11. Incentives for research paper publication in SCI/SCIE/Scopus indexed journals.

File Description	Document
Upload any additional information	[View Document](#)

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 0

6.3.2.1 **Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 1.4

6.3.3.1 **Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
0	3	2	1	1

File Description	Document
Upload any additional information	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 27.85

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

2019-20	2018-19	2017-18	2016-17	2015-16
27	9	18	5	5

File Description	Document
Upload any additional information	[View Document](#)
Details of teachers attending professional development programmes during the last five years	[View Document](#)

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

Response:

The college follows a systematic Performance Appraisal System for teaching and non-teaching staff. The institution/management evaluates teaching staff based on teaching, research and participation in development activities and due importance is given to all the activities. The institution evaluates non-teaching staff based on performance in technical work and administration-related activities, co-curricular, professional development-related activities, academic contributions, general conduct and qualities.

At the end of each academic year, the data pertaining to the above categories are collected from each faculty member. Based on the data collected, the Director and the Principal evaluates the achievements of each teaching and non-teaching staff. Further, at the mid and end of each semester, feedback forms are issued to the students for each of the courses attended by them. The feedback forms are in the form of questionnaires that collect information about the teacher and different aspects pertaining to the teaching process. The Director and Principal go through the feedback forms collected from the students and suggest suitable measures to improve the teaching-learning process. The management evaluates the faculty members and staff by merit rating based on their performance during the period of evaluation. They are recognized and awarded for academic performances, research proposals and publications. For non-teaching staff, there will be feedback collected from each department and based on the feedback appraisals are given. The above-mentioned appraisal system has helped the institution to identify and reward meritorious employees and to positively motivate them and it also helps to improve the overall performance of teaching and non-teaching staff.

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

	The institution has a well-defined mechanism for internal and external audits, feedback from the auditors are analysed and if needed are immediately rectified.

Internal Audit-Internal Audit is an ongoing continuous process.For this two members, comprising of the Financial Manager and the Financial officer of the Executive Committee are appointed and they periodically check and verify all payments,receipts and journal vouchers of the transactions,cash books and ledger account review.

External Audit-External Financial Audit is carried out by the charactered accountant firm,Kollam and they perform audit of all financial statements of the college.Finalization of Income and Expenditure account is done by the office staff and is completed in the month of March,every year.This audited statement is prepared in the month of July/August and is sent to the management for their study.The audited statement is duly signed by the Principal,Chairman and Chartered Accountant.

Annual Budget for the institution is being prepared at the beginning of financial year,considering the potential income and expenditure involved in the year.Budgetary provisions for the departments are also made based on the requirements provided by the HOD.The departments propose their budgetary requirement for the particular year.The Principal then puts forth proposals on finance related matters and seeks approval from the management and ensures its apt implementation.

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 0.2

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0.2	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	[View Document](#)

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

Response:

Budget requirements under 'recurring' and 'non-recurring' heads are collected from all the departments before the commencement of the financial year.Allocations are made as per the availability.Spending is monitored by accounts section.Supplementary allocations are made in special cases ,if needed.The management has very efficiently and effectively doing this over the past years that the institution never had any serious budget crunch that affected the normal functioning of the institution.Budget allocation of each year is made available prior to the beginning of the financial year. In no circumstances, teaching learning process is made to suffer because of fund shortage.The budgetary requirements are met through the fees collected from the students.

Optimal Utilization

The institution level budget allocation and expenditure/utilization presented above clearly portrays the institution level quantitative utilization of allotted fund.It can be seen in most cases,the funds alloted for a particular year are utilized in the same year itself. All the heads of the departments are intimated of the extent of the funds allocated against their budget proposals. Major works like construction,upgradation of existing infrastructure,procurement and maintenance of common utilities,house-keeping,procurement of furniture,etc.,are also implemented by utilising the available funds.Adequate amount of money has been spent on purchase of library books and other resources.

Funds utilization strategies:

- **According to financial requirement of each department, budget amount will be allocated annually such budget will be discussed and**

- **Monitoring the establishment of the infrastructure, purchase of equipment's for various labs.**

- **Purchase of educational technology aids.**

- **An independent committee is constituted to take care of additional constructional work.**

- **Periodic monitoring the utilization of the funds allocated to the departments.**

- **Ensure optimal utilization of the resources according to the plan.**

File Description	Document
Upload any additional information	View Document

6.5 Internal Quality Assurance System

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

Response:

Providence College of Engineering has constituted an Internal Quality Assurance Cell (IQAC) in the year 10th August 2017 in order to monitor the academic quality and to bring high-quality standards in the teaching-learning process, consistent with the vision and mission of the Institution. The IQAC has taken the uphill task of not only monitoring the processes present in the system but also initiated concept-to-completion of many reforms. The IQAC strategized the steps and actions to implement the Outcome Based Education in all the departments of the institution. The cell is vibrant and it manages various research activities, including training and promotion of research and management of research grants, publications, etc.

Best practices - 1;

Academic Audit

Academic audits are conducted as of the program in order to monitor and evaluate the teaching-learning process. It consists of internal audits and external audits. Audits are conducted for the teaching process including the course file, Laboratory Maintenance and departmental activities. The main objective of an academic audit is to ascertain departments have put in place adequate and effective quality assurance mechanisms in terms of strategies, procedures, their applicability, that ensures quality inputs and consequently quality outputs; their agility in ensuring continuous improvements along with the review of available resources, their optimal utilization, additional resource requirements for providing quality education.

Best practices - 2;

Development of smart classrooms in all departments

The learning process becomes easier with the application of smart classroom facilities. In PRC, all the classrooms comprise of projectors and whiteboards. Projects help the faculty members to deliver the sessions in an effective manner. Presentations, videos and other visually attractive methods of teaching become interesting to students who are already struggling with the traditional method of teaching in a classroom. Showing diagrams and pictures make the students understand the concepts easily and will remember the topics for a longer period of time. The use of whiteboards usually won't create any health issues and they provide relief to the faculty members and students suffering from various allergic problems. Moreover, the usage of smart classrooms promotes more interaction between teacher and student with improves the overall effectiveness of the lecture sessions.

File Description	Document
Upload any additional information	[View Document](#)

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives   )

Response:

Providence College of Engineering, through IQAC, periodically reviews and continuously upgrades the quality of the teaching-learning process by way of enhanced academic research, effective training and timely academic audit for quality assurance. Some of the institutional reviews and implementation of teaching-learning reforms initiated by IQAC are discussed here

1. Blooms Taxonomy was initiated by IQAC in the academic year 2018-2019.

2. The institution follows the academic calendar made by the APJ Abdul Kalam Kerala Technological University from the beginning of the Academic Year.

3. The faculty in the College are encouraged to utilize modern Information and Communication Technology (ICT) tools such as Smart classrooms, PowerPoint Presentations, Video Streaming, Audio components, etc., for effective classroom teaching.

4. Each faculty prepares a semester-wise Course Plan for their subject and gets it approved by the Principal. The course plan shows the schedule of tests, assignments, presentations and exams in advance so that there is enough time for revision.

5. Lecture classes missed by the faculty on account of leave are compensated by taking extra classed on the Saturdays of the month.

6. Internships, projects, assignments and presentations are made mandatory as part of the courses in order to motivate the students to gain practical knowledge and to hone necessary skills which are required for their profession/career.

7. The institution encourages the teachers and students to undertake self-motivated improvement activities with the goal to continuous improvement in their performance.

8. A team of Program Timetable Coordinator and Staff Advisor (FA) adds schedule as per the program plan. This team defines the timetable of each semester in the academic year.

9. The institute sends the faculty for a faculty development program in the area of their teaching subjects to update the knowledge and to keep up with the current trends.

10. In addition to that institute has an Innovation and Entrepreneurship Development Centre (IEDC) club to innovate student's idea and make it as a product.

11. Students are encouraged to the industrial visit and internships during their studies.

12. Institute appoints Chief Examination Superintendent for the smooth functioning of the internal assessment procedure by the examination cell. The IQAC reviews the attainment and issues further recommendations.

- In the course of reviewing the teaching-learning outcomes, the College identifies and implements the following initiatives:

Example – 1

Avant-garde Teaching-Learning Resources:

The Institution constantly strives to achieve excellence in teaching-learning outcomes and supports this initiative by providing state-of-the-art resources wherever required. The College aims to create and disseminate knowledge through ICT methods, which will empower faculty and students. In keeping with the requirements of the tech-savvy generation of students, the campus is Wi-Fi enabled. The computer labs have been completely modernized with state-of-the-art equipment and facilities. The Library block has been completely revamped in terms of infrastructure and accessibility to resources. Library Management Software (LMS) has also been introduced to enhance library services. All Departments and Units of the College are equipped with overhead and LCD projectors. Faculty and students are encouraged to use these aids extensively.

Example – 2

Feedback Mechanism:

There will be a course committee formed at the beginning of each semester, which consists of four student representatives and the teaching faculty and one faculty (Chairman) who are not teaching in the class. There will be a class committee with student representatives and all the teaching staff and head of the department. The course committee meets at the beginning of the semester and end of the semester to collect the feedback of the students and the corrective action will be implemented through the IQAC cell. The class committee meets once in the mid of the semester and takes the feedback from the students. Feedback is collected and consolidated, analyzed by each department. The corrective actions will be implementing processes through IQAC. There is parent feedback, which will be sent to the parents of each student in the institution and feedback of parents is collected regarding the academic and non-academic activities. Those feedbacks also analyzed and corrective actions will be implemented through the IQAC cell.

File Description	Document
Upload any additional information	[View Document](#)

6.5.3 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
2. **Collaborative quality intitiatives with other institution(s)**
3. **Participation in NIRF**
4. **any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

Response: D. 1 of the above

File Description	Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document

Criterion 7 - 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 last five years.

Response:

 Yes, extreme care is taken for safety and security.

Institution shows gender sensitivity in providing facilities such as :

1. Safety and security

College of engineering is taking certain specific initiatives to facilitate gender equity and their development and empowerment.

A Women Empowerment Cell is active on the campus to promote the general well-being of female students, teaching and non-teaching women staff & hence to promote a culture of respect and equality for the female gender. To maintain safety and security to the girl students and woman faculties, a committee has been constituted for the redress of grievances. Our Internal Compliances committee stays alert all the time to prevent any sexual abuse to words students and female workers. We also focus on preventing this kind of harassment by using secret monitory services, which keep a keen eye on the entire campus.

Surveillance cameras are installed at different locations such as the institute entrance, library, workshops, students area administrative office, parking area, and computer center. Students are mandated to wear their IDs and are monitored by the full-time vigilant security personnel guarding the gates.

The hostels are properly fenced and gated, and are installed with CCTV. The movements of hostel inmates and outsiders are also monitored and recorded. The college has all the necessary measures in place to ensure girl student safety.

The anti-Ragging committee makes sure that there are no instances of ragging anywhere in the campus and hostel. Medical assistance grievance redresses, awareness programs for women, and complaint boxes are provided for ensuring safety.

2. Counselling

The major objective of the counseling center is to facilitate the Academic, Emotional, Social, and cognitive development of the students hence empowering them in their learning and personal development

To achieve the same the academic council formed a committee of faculties from each department for individually monitoring the students. The elected faculties equally divided the students among the staff members to monitor their personal, academic, and psychological well-being by constant interaction with them and their parents

Activities conducted as a part of the academic counseling unit:

1. Every year an orientation session is conducted for the newly admitted trainee engineers.
2. Orientation session for parents is addressed by   Rev. Dr. Joe Joseph Kuruvilla, Director Marthoma counseling center Thiruvalla, Kerala at seminar hall.
3. The students were given a group counseling session for inspiring them in their studies.
4. An individual counseling session was provided for the weaker students and for those students who requested for it.

A Specialist external counselor is appointed by the institute for student counseling for one day every week. Personality development programs are conducted regularly for the overall development of the students.

3. Common Room

 A common room is available on the campus with a bedding facility and washroom. A first Aid box is also available in the sick room with common medicines.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	[View Document](#)

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. **Solar energy**
2. **Biogas plant**
3. **Wheeling to the Grid**
4. **Sensor-based energy conservation**
5. **Use of LED bulbs/ power efficient equipment**

Response: B. 3 of the above

File Description	Document
Geotagged Photographs	[View Document](#)
Any other relevant information	[View Document](#)

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- **Solid waste management**
- **Liquid waste management**
- **Biomedical waste management**
- **E-waste management**

- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

Response:

Waste Management Steps include:

Waste management is very important to maintain an eco-friendly campus. The instruction makes necessary steps to separate the wastes on a category basis and to dispose of them accordingly. The solid wastes and liquid wastes are separated and measures are taken for the disposal. In response to the call given by the Honorable Prime Minister Shri Narendra Modi, the Swachh Bharat Abhiyan is part of the green and clean initiative of the college. The College has taken effective measures in setting-up of adequate dustbins at various places on the campus.

Solid waste management:

Daily garbage is collected by housekeeping personnel and is disposed of in a waste management plant. Waste like plastic, papers, etc. is collected and sold out to scrap vendors from time to time. The waste from the canteen is separated as dry and wet wastes in separate waste containers.

Liquid waste management:

All wastewater lines from toilets, bathrooms, kitchens, etc. are connected to the septic tank. The chemical wastes are neutralized and disposed of.

E-waste management:

The e- wastes like computers, keyboards mouse, etc are collected.

The staff members and students are counseled against the use of plastics. They are encouraged to use the water coolers which are available conveniently on each floor of the college buildings. Reusable plates and glasses are used in the canteen so that the use of plastics is minimized.

File Description	Document
Any other relevant information	[View Document](#)
Link for Geotagged photographs of the facilities	[View Document](#)

7.1.4 Water conservation facilities available in the Institution:

1. **Rain water harvesting**
2. **Borewell /Open well recharge**
3. **Construction of tanks and bunds**

4.Waste water recycling

5.Maintenance of water bodies and distribution system in the campus

Response: B. 3 of the above

File Description	Document
Any other relevant information	[View Document](#)

7.1.5 Green campus initiatives include:

1.Restricted entry of automobiles

2.Use of Bicycles/ Battery powered vehicles

3.Pedestrian Friendly pathways

4.Ban on use of Plastic

5.landscaping with trees and plants

Response: B. 3 of the above

File Description	Document
Various policy documents / decisions circulated for implementation	[View Document](#)
Any other relevant documents	[View Document](#)

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

1.Green audit

2.Energy audit

3.Environment audit

4.Clean and green campus recognitions / awards

5.Beyond the campus environmental promotion activities

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	[View Document](#)
Certification by the auditing agency	[View Document](#)
Certificates of the awards received	[View Document](#)
Any other relevant information	[View Document](#)

7.1.7 The Institution has disabled-friendly, barrier free environment

1. **Built environment with ramps/lifts for easy access to classrooms.**
2. **Divyangjan friendly washrooms**
3. **Signage including tactile path, lights, display boards and signposts**
4. **Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

Response: A. Any 4 or all of the above

File Description	Document
Any other relevant information	[View Document](#)

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

We believe in unity in diversity that's why our students respect the different religions, languages, and cultures. We feel the college is our second home and all faculty are like family members. We greet and wish each other at different festivals and invite them to have a feast to get introduced to one's culture to have amicable relations and to maintain religious, social, and communal harmony. Similarly, our students also celebrate the different festivals with joy and enthusiasm which help them to implant social and religious harmony. The diversity in India is unique. Being a large country with a large population. India presents endless varieties of physical features and cultural patterns. It is the land of many languages and only in India people profess all the major religions of the world. To represent our Indian culture, on the eve of our college annual gathering we organize competitions. Through this activity, students get acquainted with the different cultures of our nation and help to develop tolerance and harmony towards cultural, regional, linguistic, communal socio-economic, and other diversities. This also creates an inclusive environment in the college and society

NSS in the college plays a vital role in promoting an inclusive environment towards cultural, regional, and socioeconomic diversities among students. The students have a wider opportunity to explore their talents and skills through these three organizations. NSS provides various local, national camps for their volunteers to explore these diversities. The Activities are presentation on the economy, good practices, cultural heritage, festivals, customs & traditions of the states. Learning the language of other states and Interacting in those languages is one of the highlights of national integration camps. In addition, learning resources about cuisine and food habits, tourism sites, and cultural programs of the states are shared extensively.

College provides an inclusive environment for students to experience various life lessons from the senior citizens of the country. Under the initiative of various departments and the Student Senate, students visiting the nearby old age homes and special schools to interact with the inmates. Students will get exposure to realize the problems faced by elderly people and witnessing their love and affection. The aim of this visit is to sensitize the students about the various socio-economic aspects of life. Each department organized a science expo where the students exhibited their projects that meet the social needs and requirements.

Students of various departments showcased innovations to show their talents.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View Document](#)

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

The vision of the institute 'socially committed ' itself shows the equality, liberty, fraternity among every stakeholder. To sensibilise students, employees of our institution to the constitutional obligations many events are celebrated with fervour. 26th January 'Republic Day' is celebrated every year to commemorate the adoption of the constitution. On this day the flag is hoisted. Speech on constitution formation and its importance are delivered by faculty members and the Principal of the college. The students get to know their duties towards their motherland and also the rights provided to each individual by our constitution and give awareness about the fundamental political principles, procedures, rights, feeling of brotherhood and a sense of belonging among themselves.. 21st February International Mother Language Day is celebrated to promote the awareness of linguistic and cultural diversity and to promote multilingualism among students. For helping women gain full and equal participation in global development, 8th March International Women's' Day is observed in the college every year to help students to eliminate discrimination against women. The "Independence Day' celebrated annually on August 15 by hoisting the national pride tricolour flag at our college premises by the Principal.

Observance of this day makes us aware of our duties towards our nation and helps to promote patriotism and national unity. On this day we also remember and commemorate all the great personalities and freedom fighters who had played a very important role and sacrificed their lives for bringing independence. As a mark of appreciation to their mentor students of this institution celebrate Teachers' Day every year on 5th September , 2nd October Mahatma Gandhi Birth Anniversary is celebrated in a befitting way in the month of October itself through seminars, lectures, quiz competition based on the life of Gandhiji

This give exposure to students in experiential learning beyond traditional classroom learning, involve students in social activities which promote citizenship role and social networking skill, create a linkage between institutions of higher learning to community or society where they live, involve students in eradicating social problems,helps students to identify the needs and problems of the community which in turn helps them to develop among themselves a sense of social and civic responsibility. The college is conscious of its values and social responsibilities which are visible by its organizing sensitization programmes every year.. The college sensitizes its students and teachers and other staff about the need of utilizing the core values and following the code of conduct.

Along with Professional ethics ,students in their fourth semester study about the constitution of India .The

study of their own country constitution and studying the importance environment as well as understanding their own human rights help to explain the background of the present constitution of India and features. Every year, newly admitted students have an induction program where Universal Human Values are introduced by different experts. PROVIDENCE COLLEGE OF ENGINEERING- CIVIL ENGINEERING DEPARTMENT conducted a 5 day webinar on Professional Ethics .

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	[View Document]()

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. **The Code of Conduct is displayed on the website**
2. **There is a committee to monitor adherence to the Code of Conduct**
3. **Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
4. **Annual awareness programmes on Code of Conduct are organized**

Response: A. All of the above

File Description	Document
Code of ethics policy document	[View Document]()
Any other relevant information	[View Document]()

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

 DAY CELEBRATIONS

1. Constitution Day: Our students organize celebrations of Constitution day on 26th November. As per the guidelines from AICTE, The NSS PCE unit conducts a general orientation program and takes the pledge.

2. Teachers Day: Our students organize teacher's day celebrations on 5th September. They invite teachers from all the departments and honor them by presenting them with gifts and greeting cards.

3. NSS Day: Our students celebrated the NSS day on 24th September by hoisting flags and giving inspirational speeches.

4. Women's Day: The students organized a women's day celebration on 8th march to honor and respect the ladies on the campus. Our students honor the women staff on that day.

5. Gandhi Jayanthi: A standout amongst the most mainstream events in India and one of the three national occasions, Gandhi Jayanti is praised in our Institute on 2nd October consistently to stamp the birth commemoration of Mahatma Gandhi. Gandhi was additionally famously known as the Father of our Nation, Bapu, or basically Mahatma.

6. Independence Day: Our students celebrated independence day on 15th august by first hoisting the flag and then doing noble works like cleaning parks and premises.

7. Republic Day: Republic Day is celebrated on January 26 to commemorate the adoption of the constitution. On this day, events include flag-hoisting and followed by a "constitution awareness program" that reminds the duties towards our nation and rights are given to them by our constitution. By organizing such types of events institute does its share to immersed patriotism and awareness to the next generation.

8. OZONE DAY: World Ozone Day or International Day for the Preservation of the Ozone Layer 2020: It is observed on 16 September to spread awareness among people about the depletion of the Ozone Layer and search for possible solutions to preserve it.

9. National Engineers day In India, Engineer's Day is celebrated on September 15 every year, since 1968, to recognize the contribution of engineers in the development of the nation. The day marks the birth anniversary of the engineering pioneer of India, Sir Mokshagundam Visvesvaraya. Our students celebrated National Engineers day & gave inspirational speeches.

10. World student day world Students' Day is celebrated every year on October 15 on former president APJ Abdul Kalam's birthday. In 2010, the United Nations declared October 15 to be World Students' Day. Our students celebrated the National students.

File Description	Document
Link for Annual report of the celebrations and commemorative events for the last five years	[View Document](#)

7.2 Best Practices

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

Response:

Best Practices 1

1. Title of the Practice: Expert Lectures and Conferences

2. Objectives of the Practice:

The major objective of introducing this practice was to inculcate a deep sense of thirst for learning new things and innovation.

3. The Context

As we live in a world where people are used to newer technology on a daily basis it's very important that we should be updated to the present tune of technology updating and the relevant usage of suitable technical knowhow. In this contest we have conducted several expert talks under the aegis of IEEE and various departmental associations. Through these expert talks the students were able to fill the gap between academia and industry to a greater extent

4. The Practice. We have conducted regular expert talks by industry leading experts to keep pace with the ever changing technological advancements happening in and around the globe. We have even conducted a few International conferences under the aegis of departmental associations. During the recent Covid Pandemic we found it very convenient to arrange expert talk by overseas experts. Through a series of experts talks conducted through online platforms such as Teams and Zoom we were able to rekindle the intellectual curiosity and drive for research and development in the recent trends by the faculty and students alike

5. Evidence of Success

As a result of the expert talks and conferences conducted at the Providence college campus we have found some students getting involved in very challenging technical contests and innovative research projects. We have found that the students were able to win cash prices and were able to come up with their own innovation while doing their projects here to such an extent of making a commercially viable and useful products like, fire fighting drone and Mobile controlled Solar lamp designed and made by Aayush Nair(2016-2020 Batch EE). Shawn Philiphose Varghese (2018-2022 Batch ME) won Second price of Rs 50,000 in the India Skills Kerala 2020 as a testimony to mention among the few of our achievers.

6. Problems Encountered and Resources Required

We faced difficulty to find time for arranging such programs due to the tight academic schedule of the affiliated University

7. Notes

The expert talk and International conferences conducted here enhanced our exposure to a greater extend towards knowing the international standards and benchmarks followed across the globe hence we were able to mould our Engineering graduates by setting up for themselves higher standards for our teaching learning process hence achieve excellence in their chosen area of study.

Best Practices 2

1. Title of the Practice: Humanitarian aids and career guidance for specific communities

2. Objectives of the Practice: Providence College has begun its operation in 2015, and being the youngest Engineering college in the State of Kerala offering Technical Education; we take it as our motto to be the most promising Engineering College in this state by delivering various kind of humanitarian aids and services for the different category of communities in and around our college.

3. The Context

We believe that Engineers had a greater responsibility towards the community around us by offering solution to their pressing needs. As of now the concept of nuclear families had created a notion of selfishness and mediocrity in the society, people are not willing to look into ways and means of extending a helping hand during many types of disasters including natural and manmade; people are getting limited in their thinking towards the welfare of themselves and their own immediate families only. It was on this context Providence college has began to do various kinds of humanitarian aids and support for the communities around us to fulfill their needs and thereby enhance their living conditions

4. The Practice.

Engineering and business is all about people and enhancing their living conditions, improving the efficiency of industrial processes and improve the living conditions of as many people as possible. It was to this aim Providence College has come up with novel strategies to help the different walks of societies in and around our College in which some of the activities we have been actively involved is enlisted herewith

1. Career guidance and Model Entrance test for Students in the +2 classes.

2. Expert Lectures in various socially relevant and program specific topics for the society at large and more specifically for prospective engineering aspirants to chose their carrier of interest.

3. Flood Relief materials collection and Distribution during the Kerala floods in 2018 an 2019.

4. Home to the homeless- provide home to the poor

5. Donated Generator for emergency Power supply during power cut for the Thaluk Hospital, Chengannur.

6. Donated Ambulance to the Karunya Trust, Chengannur.

7. Conduct of Proart Jam; Painting competition and Christmas Celebration for the Special Schools in and around Pathanamthitta District.

5. Evidence of Success

Through this practice we were able to instill in the mind of Students a sense of social responsibility and commitment for the benefits they have received from the society. Moreover the students are oriented towards finding ways and means to become an entrepreneur by being actively involved with the pressing needs and pain areas in the society where they can work on to improve their living conditions. When we

have welcomed special school children in the campus during the Pro Art jam contest, it created a sense of satisfaction and gratitude among the students of Providence college for the talents, ability and opportunities that they enjoy for pursuing a career in Engineering. When our student's community stepped forward to help the differently abled students from the Special schools, they were able to understand their limitations and the enthusiasm they exhibited in spite of their limitations and circumstances.

6. Problems Encountered and Resources Required

One of the challenges we have faced in providing humanitarian aids is how to choose the areas and communities in which we have to reach out a helping hand with our limited time and resources. Availability and selection of good career guidance professionals was challenging.

7. Notes

The Humanitarian aids and career development programs conducted by Providence college has helped to build better relationship with the communities around the campus

File Description	Document
Link for Best practices in the Institutional web site	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Knowledge and money prove to be one of no significance unless it is equally shared with those in need of it. Merely amassing knowledge irrespective of the discipline one pursues, a pool of socially committed and responsible oriented engineers are really thirst in our society as these young minds have an impact towards becoming proficient leaders of tomorrow.

The college is situated in a rural place. Everyone depends on government hospitals for medical support. MGM charitable society with Providence college ensures the facilities of the hospital. Providence College has extended its generosity in providing a generator to Chengannur Gvt. Hospital, as it is vital for the successful completion of surgeries without failure. An ambulance provision was also arranged for the needy to arrive from remote places to the hospital. For the welfare and security measures of the people, who cannot afford it for themselves, a giant step had been taken by the staff and students of PCE extended their willingness to share the comfort of their lives with those who were needy of it by the program **"Samoohathinoru kaithang" and "Home for homeless"**.To avoid accidents, at college junction a road

junction convex mirror was placed by PCE. PCE students engaged in activities Swachh Bharat Abhiyan like awareness campaigns street plays, swatch ta meals, door to door meetings on sanitation, hygiene toilet usage, and handwash. By them, school level rallies wall paintings segregation of solid waste street cleaning, etc were also organized.

The unwelcomed flood in 2018 hurts the people thriving peacefully in Kerala.PRC never moved to step back seeing the pathetic condition of the homeless and downtrodden by extending its generous arms to provide for these people. A help in time of need was availed through the chief minister's relief fund and also for those students and staff who were adversely affected by the incessant flood.

Shortly, carelessness has been seen to be one of the reasons for accidents. It has consumed the health and wealth of the victim in a very treacherous manner. Seeing into the lives of people and in need to preserve their precious lives to their Kith and Kin, a barricade was stretched out through the roadways spanning the entire traffic system to give a message of provision of safety from accident-prone areas, which later turned up to be also fruitful in proclaiming the message to combat again COVID -19

Life is all about ups and downs. Celebrations are one of the general occasions when providence starts to blossom. The spirit of happiness tranquility, joy, and love radiate them without the ambiance when Christmas is celebrated at the end of the year. Time shifts to a special engagement when the jovial mood of the staff of PCE, venture in to make little provision for differently-abled as well as old age homes to see their faces being glitz up with cheerfulness with the approach of the gifts from PCE. The committed staff delights themselves to make for them, some foodstuffs by themselves to shower the love and care to them as well. It is the right time when everyone remembers one another just because it is the spirit of the occasion.

To go to a deeper level of understanding a conglomeration of 9 special schools had been invited to participate, educate and empower the differently-abled through the expression of art including painting, singing, dancing, and various other programs named **'PRO ART JAM'.**

PCE engaged with helping the local community in a meaningful & innovative way by sponsoring newspapers- Mathrubhumi- Madhuram Malayalam, and Manorama vayana Kalari in association with **KFUNAI**. PCE initiated a small effort of distributing study materials kits to students in nearby schools by –'small kits and big smiles '.Outstanding performers in the chengannur constituency who scored full A+ grade in Kerala HSC and SSLC examinations and top scorers of CBSE and ICSE examinations were facilitated in a function at PCE. Through **PMKVY** program certificate course was arranged for trainees.

To prevent illegal activity and report in a fast and effective manner to the authorities, the state excise department in association with the antinarcotic cell of PCE has launched a program of providing an information box to all the students and the public.

Another great initiative of the college to nurture the talents in young minds all over Kerala was **PRO NOVA**. The objective of the competition was to provide a platform for High School and Higher Secondary School students to pursue their creativity and innovation and to appreciate the role of technology in meeting the challenges of the present day. **PROMET** the model test for entrance examination helped a lot of students All over Kerala and abroad in achieving their dreams in their lives through Kerala Entrance Examination.PCE extended its hands in renovating the Mannar NSHSS computer lab, thereby leaving a stamped mark in the local community and social development.

It was a breakthrough such times as these during the pandemic with our state facing a crisis to find a solution that the Principal of Providence College of Engineering, Dr.Santhosh simon designed a cost-effective mobile oxygen cylinder to save lives of people suffering from Covid 19.

Through these activities, PCE creates socially responsible professionals by imparting human values and leadership qualities.

File Description	Document
Link for appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

The institution has a sprawling campus spread over 10.19 acres with modern buildings, technology-enabled classrooms, internet with Wi-Fi, library with reading room, well equipped laboratories, spacious hostel for students and seminar halls.Sports facilities for students such as basketball court, football and cricket ground, badminton and volleyball court etc are provided.

Concluding Remarks :

The college has played a significant role in the upliftment of the deprived socioeconomic sections of the society through quality engineering education from its inception throughh the active role played by the following, apart from the dedicated teaching learning process.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.2.3	**Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years** 1.2.3.1. **Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years** Answer before DVV Verification: {table1} Answer After DVV Verification : {table2} Remark : Input edited referring data uploaded by HEI.
2.1.2	**Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)** 2.1.2.1. Number of actual students admitted from the reserved categories year-wise during the last five years Answer before DVV Verification: {table3} Answer After DVV Verification : {table4}
2.4.2	**Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)** 2.4.2.1. **Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years*** Answer before DVV Verification: {table5}

table1:

2019-20	2018-19	2017-18	2016-17	2015-16
32	12	34	14	0

table2:

2019-20	2018-19	2017-18	2016-17	2015-16
32	14	34	13	0

table3:

2019-20	2018-19	2017-18	2016-17	2015-16
20	31	17	17	20

table4:

2019-20	2018-19	2017-18	2016-17	2015-16
30	33	28	31	49

table5:

2019-20	2018-19	2017-18	2016-17	2015-16
10	11	12	8	6

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
7	11	12	8	6

Remark : Input edited referring data uploaded by HEI.

2.4.3	**Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)**
	2.4.3.1. Total experience of full-time teachers
	Answer before DVV Verification : 211
	Answer after DVV Verification: 137.75
3.1.2	**Percentage of teachers recognized as research guides (latest completed academic year)**
	3.1.2.1. Number of teachers recognized as research guides
	Answer before DVV Verification : 3
	Answer after DVV Verification: 2
	Remark : Input edited referring data given by HEI.
3.2.2	**Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years**

3.2.2.1. Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years
Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
7	2	0	0	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
6	3	0	0	0

3.3.1	**Number of Ph.Ds registered per eligible teacher during the last five years**
	3.3.1.1. How many Ph.Ds registered per eligible teacher within last five years
	Answer before DVV Verification : 2 **3.3.1.2. Number of teachers recognized as guides during the last five years**
	Answer before DVV Verification : 3
	Answer after DVV Verification: 2
3.3.2	**Number of research papers per teachers in the Journals notified on UGC website during the**

last five years

3.3.2.1. **Number of research papers in the Journals notified on UGC website during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
10	24	12	4	3

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
8	22	9	3	3

Remark : Input edited verifying the list publications has approved by UGC

3.4.3	**Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

3.4.3.1. **Number of extension and outreached Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
26	36	81	37	19

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
25	35	82	37	19

3.5.1	**Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year**

3.5.1.1. **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
95	23	17	3	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
74	22	17	3	0

Remark : Input edited referring data uploaded by HEI. Copies of collaboration/related documents indicating the nature of collaboration and activities year-wise. have not been provided by HEI.

4.1.4	**Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)**

4.1.4.1. **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
78.88	424.42	1814.79	543.23	553.41

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
79.15	437.5	1900.9	569.2	554.25

Remark : Input edited by considering audited statement of Providence Engineering College only

4.2.4	**Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year**

4.2.4.1. Number of teachers and students using library per day over last one year
Answer before DVV Verification : 56
Answer after DVV Verification: 83

Remark : Input edited referring data uploaded by HEI.

5.2.1	**Average percentage of placement of outgoing students during the last five years**

5.2.1.1. **Number of outgoing students placed year - wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
29	18	0	0	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
30	18	0	0	0

5.2.2	**Average percentage of students progressing to higher education during the last five years**

5.2.2.1. **Number of outgoing student progression to higher education during last five years**
Answer before DVV Verification : 9

	Answer after DVV Verification: 10
5.3.3	**Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)** 5.3.3.1. **Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years** Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
7	7	2	1	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
7	5	1	1	0

Remark : Input edited considering Group events as one, as per SOP

6.3.2	**Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years** 6.3.2.1. **Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years** Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
13	11	3	5	1

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

Remark : Input edited as audited statement of Providence Engineering College has not been provided by HEI

6.3.3	**Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years** 6.3.3.1. **Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years** Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
0	2	3	1	1

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	3	2	1	1

7.1.4	**Water conservation facilities available in the Institution:** 1. **Rain water harvesting** 2. **Borewell /Open well recharge** 3. **Construction of tanks and bunds** 4. **Waste water recycling** 5. **Maintenance of water bodies and distribution system in the campus** Answer before DVV Verification : B. 3 of the above Answer After DVV Verification: B. 3 of the above
7.1.5	**Green campus initiatives include:** 1. **Restricted entry of automobiles** 2. **Use of Bicycles/ Battery powered vehicles** 3. **Pedestrian Friendly pathways** 4. **Ban on use of Plastic** 5. **landscaping with trees and plants** Answer before DVV Verification : A. Any 4 or All of the above Answer After DVV Verification: B. 3 of the above

2.Extended Profile Deviations

ID	Extended Questions
1.2	**Number of programs offered year-wise for last five years** Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
5	5	5	5	5

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
5	5	5	5	5

2.1	**Number of full time teachers year-wise during the last five years** Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16

| 53 | 56 | 56 | 42 | 20 |

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
51	54	56	40	20

3.2	**Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
755.63	1167.10	2409.44	1001.62	793.74

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
339.19	707.55	897.48	1176.58	1072.54

3.3	**Number of Computers** Answer before DVV Verification : 299 Answer after DVV Verification : 151

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