Dr D Y Patil School of Engineering, Lohegaon, Pune.

IQAC ANNUAL REPORT

Academic Year 2018-19

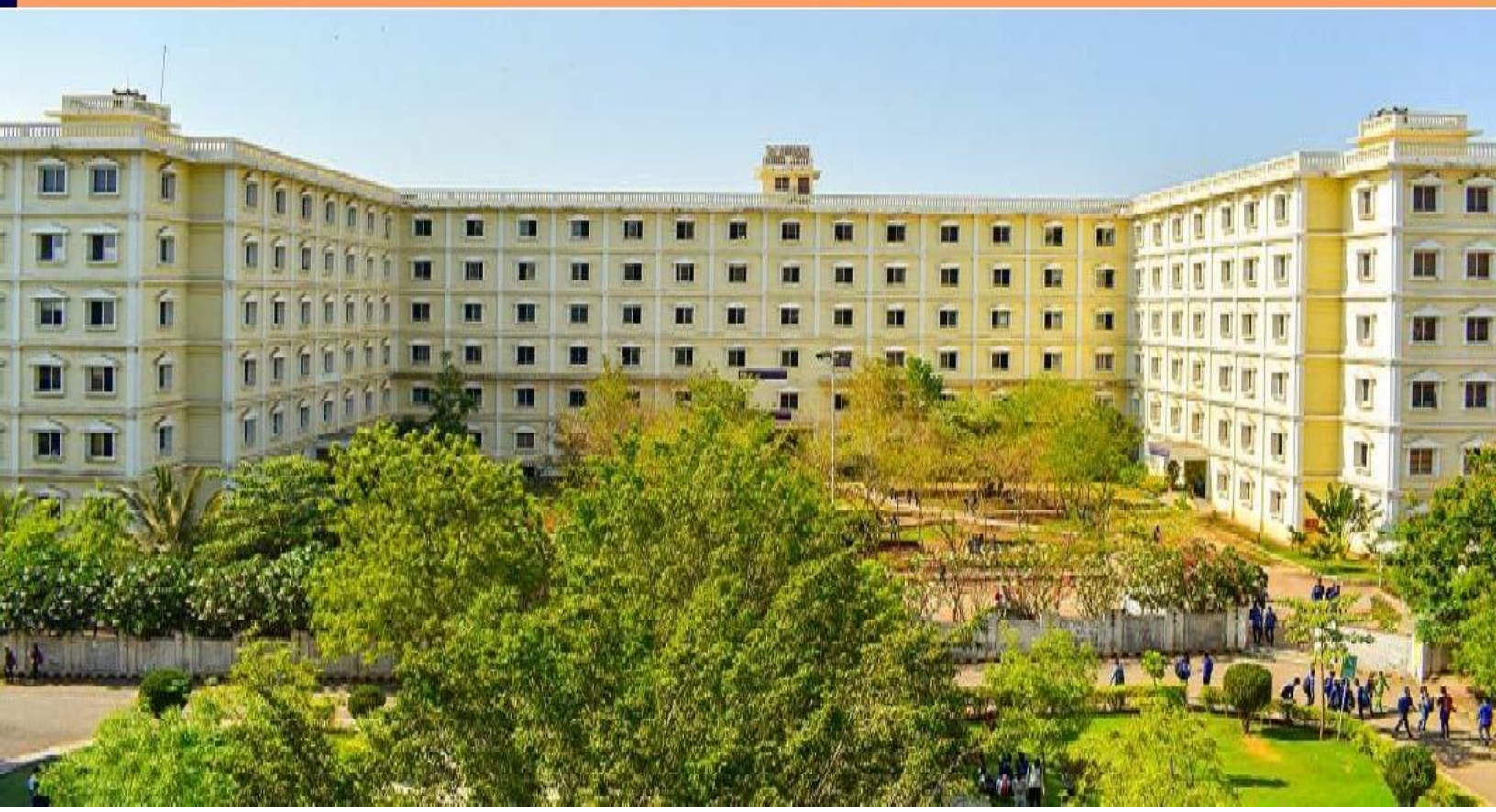
"Empowerment through Quality Technical Education"

Dr D Y Patil School of Engineering

D Y Patil Knowledge City, Charholi (Bk), Via Lohegaon, Pune 412105

Affiliated to S. P. Pune University Pune, MSBTE, Approved by AICTE & DTE

Accredited by NAAC, NABL & ISO 9001:2015 & 21001:2018 Certified Institute



ACADEMIC YEAR 2018-19

ANNUAL REPORT

Submitted to

THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

INDEX

SR. NO.	TITLE	PAGE NO.
	Vision, Mission, Quality Policy	
1.	About the Institute	1
2.	Glimpses of the Campus	2
3.	IQAC Plan of Action	4
4.	Curricular Aspects	6
5.	Teaching- Learning and Evaluation	7
6.	Research, Innovations and Extension	11
7.	Infrastructure and Learning Resources	21
8.	Student Support and Progression	23
9.	Governance, Leadership and Management	30
10.	Institutional Values and Best Practices	44
11.	Institute Plan of Action for the Next Academic Year	48

Vision

Empowerment through quality technical education

Mission

M1: To achieve excellence in teaching, learning and research

M2: To impart skill based education to meet the needs of industry and Society

M3: To excel as a center of excellence in technical education

M4: To inculcate social &ethical values among the students

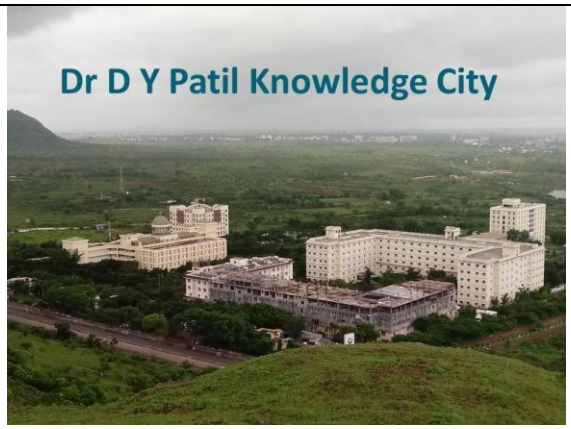
Quality Policy

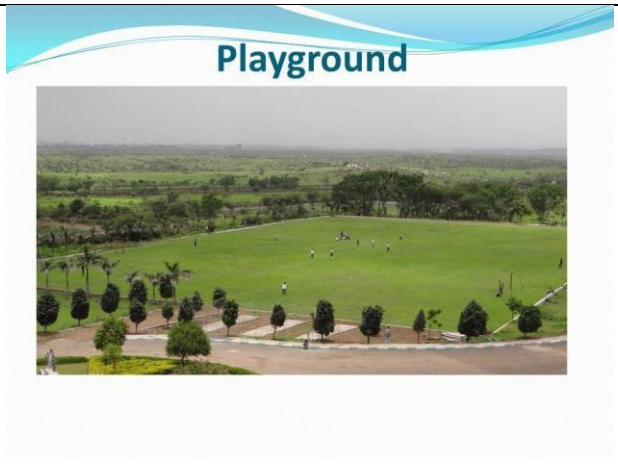
We strive to impart the quality technical education through academic excellence and provide best of facilities to satisfy the need & expectations of the students & stakeholders.

1.About the Institute

- **Name of the Institute:** Dr D Y Patil School of Engineering
- **Address of the Institute:** Dr D Y Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105
- **Name of the Principal :** Dr F. B. Sayyad
- **Contact Number :** Tel: 020-35037922
- **Website:** www.dypsoe.in
- **AICTE Permanent Approval Number:** 1- 3847411
- **College ID Number by Directorate of Technical Education, Maharashtra:** EN 6732
- **Pune University College ID number:** CEGP015720
- **AISHE ID: C-46648**

2. Glimpses of the Campus





Indore Sports Facility

Outdoor Sports Facility

Auditorium

Rain water Harvesting System

- Our campus landscape is design such a way that all rain water flow will go towards the natural lake and also near Bore well which recharge our Bore well naturally.

Solar Power System

- Hostel building roof installed solar system of KV
- Installation of solar system on other building roofs is in process, order is placed already for vendor

Library

3. IQAC Plan of Action

Sl No	Plan of Action	Schedule	Monitoring Authority
1	A Meeting to discuss restructuring and finalization of IQAC for A.Y. 2018-19	First week of June 2018	Principal & IQAC coordinator
2	A Meeting to discuss plan of action prepared by IQAC for A. Y. 2018-19	Second week of June 2018	Principal & IQAC coordinator
3	Finalization of Plan of action	Second week of July 2018	IQAC Coordinator
4	To prepare and allocate budget for academic and administrative activities	Third week of June 2018	IQAC coordinator in consultation with Budget Committee
5	Approval of Plan of action and required budget by CDC	Fourth week of June 2018	Principal
6	Revision in Perspective Plan of the Institute	July 2018	Management, Principal, IQAC Coordinator
7	Revision in Strategic Plan of the Institute	July 2018	Management, Principal, IQAC Coordinator
8	To initiate institute and department-level activities for quality enhancement.	During A. Y. 2018-19	IQAC Coordinator, HoDs
9	Preparation and Checking of Course file and e-Content with CO-PO Mapping	Second Week of July 2018	HoDs
10	Review of result analysis and corrective action	Aug 2018	HoDs
11	To conduct online/offline Webinars/Workshops/ FDP by each department	During A. Y. 2018-19	HoDs
12	To conduct minimum two internal examination for each subject for indirect assessment and for continuous assessment.	During A. Y. 2018-19	HoDs
13	To register and complete at-least two relevant MOOC courses or one FDP or industrial training (not less than 5 days) or online NPTL certificate courses (minimum 4 weeks) by all teaching faculty per year	During A. Y. 2018-19	HoDs
14	To attend webinars /FDP/ workshops by faculties	During A. Y. 2018-19	Faculties of all departments
15	To promote and strengthen the research, innovation, and incubation activity	During A. Y. 2018-19	Dean R&D, IPR, TBI Cell & IQAC Coordinator
16	To publish minimum one paper by each faculty with the name of institute in the affiliation in peer reviewed journal	During A. Y. 2018-19	HoDs.
17	To initiate consultancy in relevant field by each department for revenue generation.	During A. Y. 2018-19	IIIC, R&D , EDC, Cell & IQAC Coordinator in consultation with HoDs.

18	To initiate start-ups through IPR commercialization	During A. Y. 2018-19	IPR Cell, R&D Cell, TBI, EDC and IQAC Coordinator in consultation with HoDs.
19	To file minimum two Patents/IPR/Copyright per department with the name of institute in affiliation	During A. Y. 2018-19	IPR Cell and IQAC Coordinator in consultation with HoDs.
20	To initiate national and international collaborations with various organization	During A. Y. 2018-19	Principal, IQAC Coordinator, HoDs
21	To organize minimum one/two week STTP / FDP by all departments.	During A. Y. 2018-19	HoDs
22	To organize international conference (inter-disciplinary)	During A. Y. 2018-19	R&D Cell in consultation with HoDs
23	To achieve 85% campus placement of eligible & interested candidates with good package.	During A. Y. 2018-19	TPO in consultation with HoDs
24	To organize at least two common skill-development programme for non-teaching and the supporting staff	During A. Y. 2018-19	Registrar, HoDs
25	To sign MoUs with Institutions & Industries and keep the existing MoUs active & functional and audit the MoU outcomes	During A. Y. 2018-19	IQAC coordinator in consultation with HoDs
26	To submit 1 major & 2 Minor research proposals and patents per department for receiving grants	During A. Y. 2018-19	Dean R&D in consultation with HoDs
27	Stakeholders Feedback : i) The students, The Teachers The parents, The alumni; The employers	May 2018	IQAC coordinator , HoDs, Alumni Coordinators, and TPO
28	Conduct an internal academic and administrative audit	November 2018	IQAC coordinators in consultation with HoDs and Registrar
29	Conduct an external academic and administrative audit	November 2018	IQAC coordinators in consultation with HoDs and Registrar
30	Prepare AQAR 2018-19 and submit to NAAC	December 2018	IQAC Coordinator in consultation with Principal
31	Participate & Submit NIRF Report to MHRD	December 2018	IQAC Coordinator in consultation with Principal
32	View & analysis of academic & administrative activities & action taken reports	During A. Y. 2018-19	IQAC Coordinator in consultation with Academic & Administrative heads, Cells, Committees

4. Curricular Aspects

Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Aptitude Development	21/02/2019	87
Soft Skills Personality Development	01/02/2019	320
Communication Interpersonal skills	04/01/2019	40
Japanese Language	17/12/2018	120
German Language	17/12/2018	120

Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Internship	4
BE	Data Analysis for Freelancing and Crowd Funding Sites using Data Science and R Programming (CE2)	4
BE	"Face Recognition And Mood Analysis (CE1) "	3
BE	Disease prediction by machine learning from healthcare communities(CE3)	4
BE	Configuration Driven Web-Development Framework (CE4)	4
BE	Smart Hospital management using IOT (CE5)	4
BE	IOT Based SMART-WHEELCHAIR (CE6)	4
BE	Interview preparation by chatbot (CE7)	4

5. Teaching- Learning and Evaluation

Parameters of Outcome Based Planning

Performance Parameters	Expected outcome
Learners Academic Performance	**100%** Students should get First Class
Best Academic Performance	**75%** Students should get First Class with distinction including ***University Toppers***
On Campus and Off Campus Placement	**85%** Students should get placed through campus in a reputed organization
Entrepreneurs	**5%** Alumni should create Jobs
Competitive Examinations	**7%** Students should join the ***Engineering Services, Public Sector Services, Civil Services***
Arts, Sports, Cultural etc	**3%** Students should find the field of their interest.

Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Toolsand resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
98	85	6	10	1	10

Teacher Profile and Quality

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Pankaj Agarkar	Assistant Professor	Reviewer and session chair of CPGCON, SPPU, Pune
2018	Dr.S.M.Koli	Professor	PhD Guide ((SPPU)
2019	Nishikant Surwade	Assistant Professor	PG Teacher Recognition (SPPU)
2019	Dr. Rashmi P Mahajan	Assistant Professor	PG Teacher Recognition (SPPU)
2018	Dr. F. B. Sayyad	Professor	Award01 (IARDO Award for Academic Leadership 2018 Fellowship: 02 1) Senior Fellow for Governing Council of SIESRP 2) Fellow Membership of ISME.
2018	Pankaj Agarkar	Assistant Professor	Reviewer and session chair of CPGCON, SPPU,

			PuneReviewer of MJRET: Multidisciplinary Journal of Research IN Engineering and Technology
2018	Sunil Rathod	Assistant Professor	Completed NPTEL online certification in Joy of Computing using Python
2018	Yogesh Thorat	Assistant Professor	Reviewer of MJRET: Multidisciplinary Journal of Research IN Engineering and Technology
2018	Jayashree Chaudhari	Assistant Professor	Completed NPTEL online certification of Programming in C
2018	Amruta Chitari	Assistant Professor	Completed NPTEL online certification of Programming in C
2018	Yogesh Mali	Assistant Professor	Completed NPTEL online certification of IOT
2018	Chaitanya Bhosale	Assistant Professor	Completed NPTEL online certification of IOT
2018	Ashwini Pandagale	Assistant Professor	Completed NPTEL online certification of IOT
2018	Ashwini Navale	Assistant Professor	Completed NPTEL online certification of Software Engineering
2018	Ajit Pagar	Assistant Professor	Completed NPTEL online certification of Software Engineering
2018	Ajita Mahapadi	Assistant Professor	Completed NPTEL online certification of Cloud Computing
2018	Ajita Mahapadi	Assistant Professor	Completed NPTEL online certification of

			Software Engineering
2018	Sunil Rathod	Assistant Professor	Completed NPTEL online certification in Introduction to Programming in C

Student Performance and Learning Outcomes

Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
673261210	BE	BE- Civil Engineering	71	61	85.91
673237210	BE	BE-E&TC Engineering	53	40	75.47
673219110	BE	BE-Mechanical Engineering	194	175	90.20
673224510	BE	BE-Computer Engineering	97	90	92.78

ECO-FRIENDLY CAMPUS

6. Research, Innovations and Extension

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Projects sponsored by the University	2	Savitribai phule Pune university SPPU ASPIRE (Board of colleges and university department BCUD)	2.75	1.37
Projects sponsored by the University	2	Savitribai phule Pune university SPPU ASPIRE (Board of colleges and university department BCUD)	1.5	0.5
Major Projects	4	SPRING DBT EU coperation	98	0

Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Seminar On Building Information Modeling	Civil Engineering	08/09/2018
Seminar on How to Receive Patent	Civil Engineering	19/01/2018
Seminar trending software's in Civil Engineering	Civil Engineering	04/10/2018
Recent trends in civil engineering for sustainable development	Civil Engineering	26/02/2019
one day workshop on IPR	All Deprtments	10/04/2019
Idea generation session	All Deprtments	17/04/2019
Conducted 2 hours session for the FE students in the Induction program	All Deprtments	30/04/2019
An Expert lecture on How to generate Patentable/Innovative ideas to address common	Computer Engineering	26/04/2019

man's Problems		
Industry Institute Interaction Week	ETC	27/08/2019
Workshop on 3D Printing by 3D Eometry Innovation, Pune	Mechanical	21/02/2019

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Electrical Vehicles in the context of India	Mr. Suyash A. Sonawane, Mr. Akshay S. Daphal, Mr. Saurbh Sampat Varpe Mr. Ravindra Chavan	CADCAMGURU (T.I.D.E. 201819)	29/03/2019	State Level
Gokart Championship	Kiran Khore Ruttvik Khollam Rupesh Patil	Auto India Racing	24/03/2019	National level
Gokart Championship	Adesh Pote	Organized by LPU Punjab, India	18/03/2019	International Level
Dynamics Mechtrix	Ajay patil Sumesh Narkhede	COEP, Pune	29/09/2019	National Level
Excellent research Award	Dr Prashant Chaudhary	CISR Foundation	08/06/2019	International Level

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Engineering Sciences	13	0.5
International	Mechanical Engg	31	1.2
International	Civil Engg	12	0.8
International	ETC Engg	32	1.4
International	Computer Engg	64	0.6

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

Department	Number of Publication
Mechanical Engineering	6
Electronics Telecomm. Engineering	1

Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Training Program	BE Students	Phoenix Marketcity, Viman nagar, Pune.	3
Training Program	BE Students	Eklahare Thermal Power Station	1
Training Program	BE Students	Dodson Lindblom Hydro Power Pvt ltd	1
Ph.D. Sponsership	Tirupati Solanki	Malaysia Global Service	1095
B.E Projects	Amit Kunchamwar	National Highways Authority of India (NHAI)	25
VSAT Training Program	Tale Akshay Vasudev Konkane Ankush Bharat Kumbhalwar Shubham R. Dudhate Sachin Balasaheb Kumar Saurav Tanti Harsha Akash Ingle Kunal Devidas Palande Dileep D.	ISTC,Pune	3

Artificial Intelligence and Machine Learning	Ingle Kunal Devidas Palande Dileep D. Konkane Ankush Bharat Sonawane Pratik	DYPTC,Pune	2
Training Program	BE Students	Auto Cluster Development Research Institute, Pune	1
Training Program	BE Students	Nayan Electronics is instrumental in the realm of manufacturing	2
Training Program	BE Students	Pune Zilha Sahakari Dudh Utpadak Sangh Ltd.	1
Training Program	BE Students	RAJ POLYFABRICS PVT . LTD	1
Training Program	BE Students	Hydropower Generation Plant at Pawna Dam, Pune	1

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Software Project Development	Data Analysis for Freelancing and Crowd Funding Sites using Data Science and R Programming	nnobytes Technology, Wakad, Pune	15/06/2018	30/06/2019	BE Students
Software Project Development	Disease prediction by machine learning from healthcare communities	Insource Technology	15/06/2018	30/06/2019	BE Students

Software Project Development	CONFIGERATION DRIVEN WEB DEVELOPMENT FRAMEWORK	Netcracker Technology	15/06/2018	30/06/2019	BE StudentsBE Students
Software Project Development	FACE RECOGNITION AND MOOD ANALYSIS	Innovative TechnologiesPvt Ltd	15/06/2018	30/06/2019	BE Students
Software Project Development	smart hospital management using IoT	Source Code Technology	15/06/2018	30/06/2019	BE Students
Software Project Development	IOT Based SMARTWHEELCHAIR	Mythos Technology	15/06/2018	23/06/2019	BE Students
Software Project Development	Interview preparation by chatbot	Technocluze Pvt.Ltd	15/06/2018	30/06/2019	BE Students
Software Project Development	automatic evaluation of answersheet and marking system	Technocluez	15/06/2018	30/06/2019	BE Students
Internship	Skill Development Course	Friends Union for Energising Lives for Engineers	15/06/2018	30/06/2019	BE Students
Internship	Power Electronics and Automation Product	MassTrans Technologies Pvt. Ltd.	03/02/2019	18/02/2019	BE Students
Internship	IoT based industrial Security Projects	Decimac Technologies	17/12/2018	16/01/2019	BE Students

Industrial Visit to HAL,Banglore	T.E Industrial Visit	HAL	21/02/2019	25/02/2019	TE Students
Industrial Visit to Mapro, Mahab aleshwar	S.E Industrial Visit	Mapro	19/03/2019	19/03/2019	SE Students
Industry sponsored Projects	Resource optimization through combinig two trim lines	TATA Motors Ltd.	28/08/2018	20/12/2018	BE Students
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Industry sponsored Projects	Resource optimization through combinig two trim lines	TATA Motors Ltd.	28/08/2018	20/12/2018	BE Students

Industrial Visit to HAL,Banglore	T.E Industrial Visit	HAL	21/02/2019	25/02/2019	TE Students
Industrial Visit to Mapro, Mahab aleshwar	S.E Industrial Visit	Mapro	19/03/2019	19/03/2019	SE Students
Industry sponsored Projects	Resource optimization through combinig two trim lines	TATA Motors Ltd.	28/08/2018	20/12/2018	BE Students
Industry sponsored Projects	Resource optimization through combinig two trim lines	TATA Motors Ltd.	28/08/2018	20/12/2018	BE Students

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Industry sponsored Projects	Resource optimization through combinig two trim lines	TATA Motors Ltd.	28/08/2018	20/12/2018	BE Students
Industry sponsored Projects	Design and development of impeller for centrifugal pump	Indo Pump	08/02/2018	17/03/2019	BE Students
Industry sponsored Projects	Design and development multi Opertaional machine for ball joint	Pushkar Engineers	14/09/2018	24/03/2019	BE Students
Industry sponsored Projects	Performance enhancement of solar cell	SPPU	15/06/2018	30/05/2019	BE Students
Industry sponsored Projects	Design and m anufacturing of paper gasket machine	SP Engineer Works and NDT Services	15/06/2018	30/05/2019	BE Students
Industry sponsored Projects	Wood leg making machine	Nayan Electronics	15/06/2018	30/05/2019	BE Students
Industry sponsored Projects	minimize tube cut defect in radiators at assembly line	TATA Toyo Radiator Ltd.	13/08/2018	31/05/2019	BE Students
Industry sponsored Projects	Hydraulic bearing puller	Saynak Hydraulics	15/06/2018	30/05/2019	BE Students
Industry sponsored Projects	Tyre retrading material handling	S T Central Workshop	15/06/2018	30/05/2019	BE Students

Industry sponsored Projects	Ultimate automatic bike washing machine	UWS EnviroTech Pvt. Ltd.	01/07/2018	30/04/2019	BE Students
Industry sponsored Projects	Design and analysis of sliding door opening mechanism for aircraft weapon bay	RDE, DRDO	30/06/2018	30/06/2019	BE Students
Industry sponsored Projects	Design and manufacturing of turning/indexing for inline assembly of 3L Engine block	Venus Engineering Service	15/06/2018	30/05/2019	BE Students

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Mishi Solution	14/08/2018	Guest Lecture	60
Yogeshwar Associates, Dadadji vasti Lohegaon, Pune	20/03/2019	To train student in handling survey work using the high ended equipment like total station and radar related to road, highways and building.	5
Stalwart BIM studio, Gangadham, Pune	20/03/2019	Training of softwares : Revit Structure (Concrete) ,Revit - Architect,Naviswork s ,Civil 3D	35
ATS Infotech, Pune	16/07/2019	Training of IT Courses	62
Zentron Engineering Services Pvt. Ltd.	07/07/2019	Training of IT Courses	62

SoftTech data Security	12/04/2019	Training of IT Courses, Software project developent	62
FUEL	08/02/2018	Guest lecture (Hybrid Automobile Technology)	52
FUEL	08/02/2018	Employability Skill building program	44

7. Infrastructure and Learning Resources

Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
iCloudEMS	Fully	6.2	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	10435	3918923	788	112734	11223	4031657
Reference Books	2113	126780	30	10000	2143	136780
e-Books	320	100300	60	0	380	100300
Journals	89	370100	5	0	94	370100
e-Journals	1000	226542	34	0	1034	226542
Digital Database	0	0	0	0	0	0
CD & Video	300	0	22	0	322	0
Library Automation	0	0	0	0	0	0
Weeding (hard & soft)	10	1200	2	300	12	1500
Others(spe	219	0	40	0	259	0

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

Name of the Teacher	Name of the Module	Platformon which module is developed	Date of launching e-content
Kundankumar Rameshwar Saraf	Why AES (Advanced Encryption Standard) is mostly used In practice.	Microsoft Power Point and OpenShot Video Editor	16/08/2018
Kundankumar Rameshwar Saraf	Text and Image Encryption Decryption Using Advanced Encryption Standard	Microsoft Power Point and OpenShot Video Editor	08/08/2018
Pratik D. Shah	Arduino	Youtube	03/09/2019

Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	484	10	80	14	14	0	0	80	0
Added	0	0	70	0	0	0	0	70	0
Total	484	10	150	14	14	0	0	150	0

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

150 MBPS/ GBPS

Playground

8. Student Support and Progression

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Language labGerman Language	12/09/2018	161	Miss Asmita Nakhate(German Certified) ITE School Miss Asmita Nakhate(German Certified) ITE School
Expert Talk on Microsoft Certified Training Program (IOT using Python Programming)	25/09/2018	112	CoreCode IT solutions
Expert Talk on Microsoft Certified Training Program (IOT using Python Programming)	26/09/2018	112	CoreCode IT solutions
Expert Talk on Website Development Web Hosting	07/09/2018	220	Mr.Sagar Tarade Cyber Tech solutions.
Expert Talk on Power plant Engg for Final year Mechanical Engineering students	07/09/2018	50	Mr. Dilip Vasant Vairagkar Walchandnagar Industries Ltd, Pune

Industrial visit of Second year mechanical Engineering students at Imperial College of Engineering,Wagholi ,Pune	11/09/2018	200	Prof. Siddhu PatilImperial College of Engineering,Wagholi ,Pune
Industrial visit of Second year mechanical Engineering students at Katraj Dairy plant ,Pune	17/09/2018	200	Mrs. RaginiKatraj Dairy plant ,Pune
Expert Talk on DELD	21/09/2018	110	Prof Ranjana Kedar Professor at K.J College of Engineering .
Expert Talk on Microsoft Certified Training Program (IOT using Python Programming)	24/09/2018	112	CoreCode IT solutions
Industrial visit of final year mechanical Engineering students	03/10/2018	160	Auto cluster development and Research Institute
Soft skill development1Days Skills Development Career Success Blueprint Workshop	31/08/2018	76	DYPSOEMr.Sunil.Rathod
Language labGerman Language	21/09/2018	120	ITESKUL Kalyani Nagar,Pune
Language labGerman Language	11/02/2019	175	Miss Priyanka Kalvit,German Certified ITE School

Expert Talk on 3 D printing	21/02/2019	350	Mr. Shaneel Karia3D Eometry Innovation, Pune
Expert Talk on Civil Services Exam	27/02/2019	590	IQRA Mr Awadh Ojha
International Yoga Day Organized by student development cell	21/06/2018	22	DYPSOE Prof. Sachin S. Jadhav
International Yoga Day Organized by student development cell	21/06/2018	79	DYPSOE Prof. Sachin S. Jadhav
Counseling Session on Power of mind ,Persionality development skill etc.	02/07/2018	60	DYPSOEProf.Yuvaraj Patil
Industrial visit ofThird year mechanical Engineering students at Pawana Dam ,Pune	18/07/2018	170	Pawana Dam ,Pune
Expert Talk on Theory of Computation	25/07/2018	110	Dr. Rajesh Phursule Professor of Imperial College of Engineering and Research,Pune
Expert Talk on Discrete Mathematics	30/07/2018	121	Prof. Preeti Jain Professor at Pune Institute of Computer Technology, Pune
Expert TalkDesign and Analysis of Engine Mounting Bracket	21/08/2018	30	DYPSOEProf. Sagar Birari
Expert Talk on IOT using python	30/08/2018	140	Mr.Parth Shukla Manager CoreCode IT solutions.

Industrial visit ofThird year mechanical Engineering students at Rajpolyfabrics ,Pune	04/09/2018	150	Mr. Pandurang Sonawaneraipolyfabrics ,Pune
Industrial visit ofThird year mechanical Engineering students at Nayan Electronics ,Pune	04/09/2018	150	Mr. Arun JangamNayan Electronics ,Pune
ExpertTalk on compressor and its application	05/09/2018	50	Mr. Kadri Ganesh KumarELGI Equipments Ltd, Coimbatore
Expert talk on FEA and CFD application in manufacturing	06/09/2018	50	Mr. Narendra GiraseSandvik Asia Pvt Ltd , Pune
Expert Talk on Employability Skill Development Training	27/02/2019	176	Mr Harjot Singh Guliani, FUEL
Expert Talk on Electric Vehicles in context of India	19/03/2019	160	Mr. Ashish Aher Mr. Prashant KulkarniCADCAMGURU
Industrial visit of final year mechanical Engineering students at Phoenix Market city	03/04/2019	170	Phoenix Market city, Viman nagar, Pune
Industrial visit of final year mechanical Engineering students at Mahagencos Nashik Thermal Power Plant	04/04/2019	160	Mahagencos Nashik Thermal Power Plant (N.T.P.S), Eklahare, Nashik
Remedial coaching10 days remedial coaching classes	01/04/2019	45	DYPSOEDr S. M. Khairnar, Ms. Rohini Gadgil, Ms. Jayani Raman.

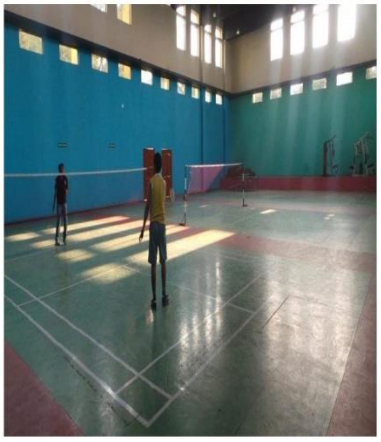
Soft SkillInterview Skills	21/08/2018	59	Barclays
Soft SkillCorporate Readiness	23/08/2018	45	Barclays
Soft skillMock Interviews Group Discussions	24/08/2018	36	Barclays
Skills Development Career Success Blueprint Workshop	31/08/2018	76	DYPSOEProf. S.Rathod
Soft SkillJapanese Language	17/12/2018	120	ITESKUL Kalyani Nagar,Pune
Soft Skill/Aptitude Guidance	01/02/2019	320	Sunil C Mirchandani Universal Soft Skills
Language labGerman Language	12/02/2019	175	Miss Priyanka Kalvit,German Certified ITE School
Language labGerman Language	14/02/2019	175	Miss Priyanka Kalvit,German Certified ITE School
Language labGerman Language	15/02/2019	175	Miss Priyanka Kalvit,German Certified ITE School
German Language	18/02/2019	175	Miss Priyanka Kalvit,German Certified ITE School
Language labGerman Language	03/09/2018	161	Miss Asmita Nakhate(German Certified)ITE School Miss Asmita Nakhate(German Certified)ITE School

Language labGerman Language	04/09/2018	161	Miss Asmita Nakhate (German Certified) ITE School Miss Asmita Nakhate (German Certified) ITE School
Language labGerman Language	05/09/2018	161	Miss Asmita Nakhate (German Certified) ITE School Miss Asmita Nakhate (German Certified) ITE School
Language labGerman Language	06/09/2018	161	Miss Asmita Nakhate (German Certified) ITE School Miss Asmita Nakhate (German Certified) ITE School
Language labGerman Language	07/09/2018	161	Miss Asmita Nakhate (German Certified) ITE School Miss Asmita Nakhate (German Certified) ITE School
Language labGerman Language	10/09/2018	161	Miss Asmita Nakhate (German Certified) ITE School Miss Asmita Nakhate (German Certified) ITE School
Expert Talk on Employability Skill Development Training	28/02/2019	176	Mr Harjot Singh Guliani, FUEL

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	Coaching for GATE Civil Services Examination Examinations	250	225	2	198

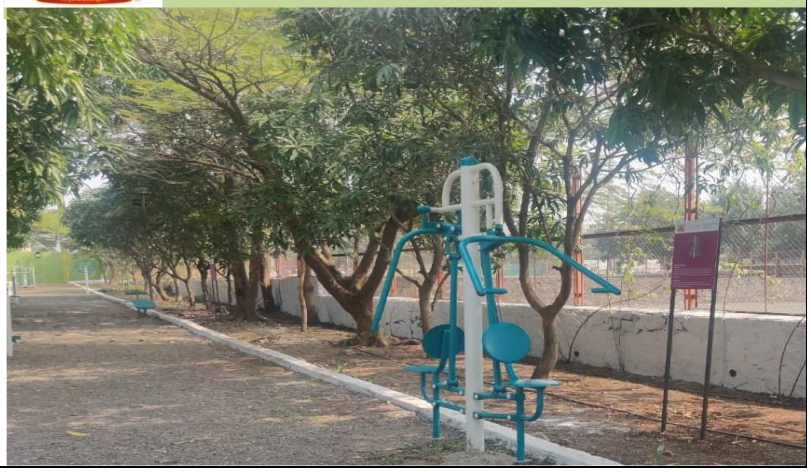
Indoor Sports Facilities



Outdoor Sports Facilities

Gym for Better Health &

Open Gym for Better He



9. Governance, Leadership and Management

Summary of Quality Initiatives taken by IQAC during A.Y. 2018-19

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Meeting of Internal Quality Assurance Cell IQAC	12-Jun-2018 1	4
Regular meeting of Internal Quality Assurance Cell IQAC	27-Jun-2018 1	9
Regular meeting of Internal Quality Assurance Cell IQAC	12-Mar-2019 1	9
Regular meeting of Internal Quality Assurance Cell IQAC	15-Mar-2019 1	97
Timely submission of AQAR to NAAC	21-Sep-2018 90	17

Feedback from stakeholders	12-Jul-2018 9	1300
Participation in NIRF	26-Sep-2018 20	256
IPR Cell- Organized one day workshop on IPR	10-Apr-2019 1	37
IPR Cell- Conducted idea generation session for each department	17-Apr-2019 1	32
IPR Cell- Conducted 2 hours session for the Faculties and students.	30-Apr-2019 1	20
IPR Cell- Conducted 2 hours session for the Faculties and students.	24-Apr-2019 1	10
IPR Cell- Conducted 2 hours session for the Faculties and students.	24-Apr-2019 1	10
III Cell- Signed MOU with FUEL	02-Aug-2018 1	127
III Cell-Conducted 2 Skill development workshop under MoU with FUEL	24-Jan-2019 2	107
ED Cell-Organized two EAC programs sponsored by EDII Ahmedabad under NIMAT, DST.	01-Oct-2019 3	123
III Cell-Conducted 2 Skill development workshop under MoU with FUEL	27-Feb-2019 2	104
ED Cell-Organized two EAC programs sponsored by EDII Ahmedabad under NIMAT, DST.	10-Sep-2018 2	118
ED Cell-Organized two EAC programs sponsored by EDII Ahmedabad under NIMAT, DST.	13-Feb-2019 3	105

R&D Cell -Received sanction of Rs.90 lakhs to Dr Sania Ansari & Dr S M Khairnar for multidisciplinary major research project from DBT New Delhi & EU.	20-Jun-2019 1460	5
R&D Cell-Received sanction of Rs.2.75 lakhs for minor research project to Mr Pratik Shah from SPPU under Aspire Scheme.	14-May-2019 730	3
R&D Cell-Received sanction of Rs.2 lakhs for minor research project to Mr Niraj Jadhav from SPPU under Aspire Scheme.	14-May-2019 730	3
R&D Cell-Submitted research proposal worth of Rs.5 lakhs to DST by Dr S M Khairnar.	24-May-2018 730	3
R&D Cell-Submitted major research proposal of Rs.25 lakhs to SERB by Aradhana Ganvir.	12-Jun-2018 1095	3
R&D Cell-Published more than 100 research papers in reviewed & approved journals.	06-Jun-2018 365	342
R&D Cell organized One day Seminar On	29-Dec-2018 7	83
TBI Cell- Indian Patent-01 (No: 201921012174, Date: 28-03-2019) System and methods for automated multi-purpose undetectable and spying spider robot	28-Mar-2019 1095	6
NBA Cell -Conducted orientation program of NBA for all faculties.	05-Mar-2019 1	67
Academic Administrative Audit	05-Jul-2019 5	5

Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Prof.Nitin Nagesh More	One week GIAN course on "Nanomechanics of Biological Systems"	PSG College Coimbatore	3540
2018	Dr. S. M. Koli	Advances in Machine learning and VisualAnalytics forforensic and security Applic ations",MIT World Peace University, Pune	MIT World Peace University	5000
2018	Dr. Saniya Ansari	Advances in Machine learning and VisualAnalytics forforensic and security Applic ations",MIT World Peace University, Pune	MIT World Peace University	3000

2018	Dr. Saniya Ansari	Advances in Machine learning and VisualAnalytics forforensic and security Applic ations",MIT World Peace University, Pune	MIT World Peace University	3000
2018	Dr. Rashmi Mahajan	FPD on VLSI Design at Deep Submicron Node	IIT, Guwahati	2950
2018	Dr. Rashmi Mahajan	VLSI Design Technology	SPPU	600
2018	Prof. Prajakta Khairnar	Electronics Product Design	SPPU	600

2018	Dr. Rashmi Mahajan	FPD on VLSI Design at Deep Submicron Node	IIT, Guwahati	2950
2018	Dr. Rashmi Mahajan	VLSI Design Technology	SPPU	600
2018	Prof. Prajakta Khairnar	Electronics Product Design	SPPU	600

2018	Prof. Kushal Mandge	Computer Network Security	SPPU	600
2018	Prof. Neha Mandge	Radition Microwave Techniques	SPPU	600
2018	Prof. Nishikant Surwade	Digital Image Video Processing	SPPU	600
2018	Prof. Swati Khawate	Audio Video	SPPU	900

2018	Sunil Rathod	NPTEL certification: Introduction to C Programming	IITB	1100
2018	Sunil Rathod	NPTEL certification: Machine Learning	IITB	1100
2018	Jayashree Chaudhari	Workshop on Machine Learning using Python	PCCOER, Ravet	600
2018	Jayashree Chaudhari	NPTEL certification: Programming in C	NPTEL, IIT KHARAGPUR	1100
2018	Amruta Chitari	NPTEL certification: Programming in C	NPTEL, IIT KHARAGPUR	1100
2018	Yogesh Mali	Laboratory Practice1FDP	MIT	1500
2018	Yogesh Mali	Artifical I Robotics	PCCOER, Ravet	1500
2018	Ashwini Pandagale	Machine Learning using Python FDP	SPPU FDP Organized by SOET,Lohegaon	1000
2018	Ashwini Navale	NPTEL FDP on Software Engineering	IITB	1100
2018	Ajit Pagar	NPTEL certification: Software Engineering	IITB	1100
2018	Ajita Mahapadi	NPTEL Cloud Computing	NPTEL	1100
2018	Ajita Mahapadi	NPTEL Software Engineering	NPTEL	1100

2018	Ajhar Shaikh	Cyber Security Workshop	COEP	1500
2018	Ajhar Shaikh	Cyber Security Workshop	COEP	1500
2018	Pramod Jadhav	FDP on Android	Cummins COE,	2000
2018	Pramod Jadhav	FDP on LPIV	D Y Patil Akurdi	600
2018	Pramod Jadhav	International conference on ICCCE	GH Raisoni	3000
2018	Pramod Jadhav	FDP on LPIV	D Y Patil Akurdi	600
2018	Pramod Jadhav	International conference on ICCCE	GH Raisoni	3000
2018	Prashant Sagre	Machine Learning Workshop	Cummins College	750
2018	Prashant Sagre	LPII FDP	D Y Patil Akurdi	1000
2018	Gaurav Tiwari	Workshop on CUDA	VIT	1600
2018	Kiran Somase	Workshop on Machine Learning using Python	PCCOE, Ravet	600

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	SciLabFDP		12/07/2018	13/07/2018	12	0
2018	Patent Filing Procedure		18/01/2019	18/01/2019	56	0

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
SciLab FDP	12	13/07/2018	13/07/2018	1
Work life balance FDP	3	15/07/2018	15/07/2018	1
Work life	3	09/01/2019	09/01/2019	1
Artifical I Robotics	1	14/07/2018	17/07/2018	4
Plumbing system design	1	30/07/2018	06/08/2018	7
Introduction to R programming	1	29/08/2018	30/08/2018	2
Workshop on Machine Learning using Python	2	13/12/2018	14/12/2018	2
Artificial Intelligence and Deep learning	1	06/10/2018	08/10/2018	3

NPTEL Certification FDP	9	01/07/2018	31/10/2018	120
FDP on Android for Ubiquitous computing	1	10/12/2018	14/12/2018	5
Advances in Machine learning and Visual Analytics for forensic and security Applications", MIT World Peace University, Pune	2	10/12/2018	14/12/2018	5
Machine Learning using Python FDP	1	27/12/2018	28/12/2018	2
Advances in Engine Design	1	01/12/2018	01/12/2018	1
NBA accreditation	1	01/12/2018	01/12/2018	1
FDP on LPIV	1	09/01/2019	09/01/2019	1
Key aspects of curricula design and content delivery	1	18/01/2019	18/01/2019	1
Laboratory Practice1FDP	1	22/01/2019	24/01/2019	3
Nanomechanics of Biological systems	1	01/01/2019	01/01/2019	1

Workshop on CUDA	1	16/02/2019	17/02/2019	2
FPD on VLSI Design at Deep Submicron Node	1	18/02/2019	22/02/2019	5
AI Machine Learning	1	25/02/2019	26/02/2019	2
Cyber Security Workshop	1	11/03/2019	15/03/2019	5
Blockchain Technology Applications	3	15/03/2019	15/03/2019	1
Surface Engineering of nano materials	1	01/01/2019	31/03/2019	90
Kinematics of mechanisms and machines	1	01/01/2019	31/03/2019	90
Kinematics of mechanisms and machines	1	01/01/2019	31/03/2019	90
Concepts of thermodynamics	1	01/01/2019	30/04/2019	120
Manufacturing process technology	1	01/01/2019	30/04/2019	120
Basics of finite element analaysisI	1	01/02/2019	30/04/2019	90
Academic Leader shipDesign and Technology University, Pune,MIT ADT,Pune	3	10/04/2019	13/04/2019	4
FDP on Cyber Security	2	14/04/2019	24/04/2019	11

2019	Parents Teacher Meet (PTMII) was organised by FE department	15/02/2019	15/02/2019	15/02/2019	162
2019	Short Film Making Competition	21/02/2019	21/02/2019	21/02/2019	36

Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Induction Program for FE was organized by FE department	30/07/2018	30/07/2018	30/07/2018	310
2018	Parents Teacher Meet (PTMI) was organised by FE department	21/09/2018	21/09/2018	21/09/2018	180
2019	Intercollegiate Debate Competition organised by FE department.	28/01/2019	28/01/2019	28/01/2019	42
2019	Social visit at Mamata Bal Sadan, Saswad	01/02/2019	01/02/2019	01/02/2019	35

Advances in Engine Design	1	01/05/2019	01/05/2019	1
Inplant training at Automotive component india pvt ltd	1	02/06/2019	02/06/2019	1
Assessment and Evaluation under Outcome Based Education (ICT04)	1	10/06/2019	14/06/2019	5
Student Induction Program for AICTE Approved Institutes	3	10/06/2019	16/06/2019	7

Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Session on Time Management Techniques by Mr Yuvraj Patil, Student Counselor, DYPSOE.	10/08/2018	10/08/2018	56
A guest lecture on 'Time management Technique' was organized by Computer department	07/12/2018	07/12/2018	50
International Yoga Day	21/06/2018	21/06/2018	101
Gandhi Jayanti Celebration Debate competition Gandhiji's Life and his work	30/09/2018	30/09/2018	20
Gandhi Jayanti Celebration Lecture on 'Ahimsa (Non Violence)	01/10/2018	01/10/2018	50

Employability Skill Development Training	22/02/2019	28/02/2019	176
Celebration of NSS Essay Competition on Swachhta, Rally on Swachhta Hi Seva, People awareness program through street play, Seminar on importance of Cleanliness	20/09/2018	20/09/2018	375
Health Related Importance of Girls Health	22/02/2019	22/02/2019	112
Health Related Awareness Swachhta Hi Seva by Students	25/09/2018	25/09/2018	50
Health Related Painting Swachhta Poster Presentation	26/09/2018	26/09/2018	15
Health Related Swachhta Pakhwada (Fortnight) Activities	01/08/2018	15/08/2018	50
Teachers Day celebration by ETC Dept	05/09/2018	05/09/2018	110
Teachers Day celebration by Civil Dept	05/09/2018	05/09/2018	120
Teacher's day celebration by Mechanical Dept	05/09/2018	05/09/2018	250

Engineer's day by Mechanical Dept	15/09/2018	15/09/2018	200
Engineers Day celebration by Civil Dept	15/09/2018	15/09/2018	100
Essay Competition on Swachhta	20/09/2018	20/09/2018	50
Rally on Swachhta Hi Seva	20/09/2018	20/09/2018	100
People awareness program through street play	20/09/2018	20/09/2018	150
Seminar on importance of Cleanliness	20/09/2018	20/09/2018	75
Personal Counselling to solve students problems by Yuvraj Patil	12/07/2018	29/04/2019	251
Counselling and mentoring sessions such as Power of mind, how to develop thinking process, Self Confidence, Stress	02/07/2018	27/02/2019	1278
Bridges Course Seminar on IOT using python by Mr.Parth Shukla Manager at CoreCode IT solutions.	30/08/2018	30/08/2018	140
Bridges Course Seminar on Website Development Web Hosting by Mr.Sagar Tarade Cyber Tech solutions.	07/09/2018	07/09/2018	220
Bridges Course Workshop on Microsoft Certified Training Program (IOT using Python Programming) by CoreCode IT solutions	24/09/2018	26/09/2018	112

10. Institutional Values & Distinctiveness

BEST PRACTICE-I
Enrichment of Teaching & Learning Process [ETLP]

- **Mentoring to address all issues for better grooming of the Learner**

{Academic & financial issues, non-academic issues, stress & emotional related issues}

- **Knowing the Learner Better to Serve Better**

{Identification the learning levels of students and conduct need based activities}

- **Interaction with Parents to meet Learners expectations**

{ Progress of Learner, corrective action based on students & Parents suggestions}

- **Feedbacks to improve our services to Learner**

{ Students, Parents , Teachers, Alumni, Employers feedback + 360 Degree Feedback}

BEST PRACTICE-II
Holistic Approach to Support Learner [HASL]

- **Financial Support**

{ Earn & Learn Scheme, Fee Concession & Scholarship, Participation in national/international conferences, professional skill development program, Support for extracurricular, co-curricular & sports activities }

- **Stress Free Learning**

{Yoga Classes, Guest Lectures, Personal Counselling from certified professionals }

- **Professional & Entrepreneurship Skill Development**

{Expert lectures/webinars on GATE, UPSC, Higher education, Communication, Employability, Skill development workshops}

- **Social Connect**

{National Service Schemes & Extension Activities }

A holistic approach pays attention to learners physical, personal, social, & emotional wellbeing as well as cognitive aspects of learning.

Institutional Distinctiveness

ECO-FRIENDLY CAMPUS

~ A state-of-the-art infrastructure and gorgeous, green and eco-friendly campus.

~ There is no direct source of air pollution in the campus.

~ The campus is maintained very clean and plastic free by maintaining rigorous regime.

~ The campus has sound planning of water use and management of water resources.

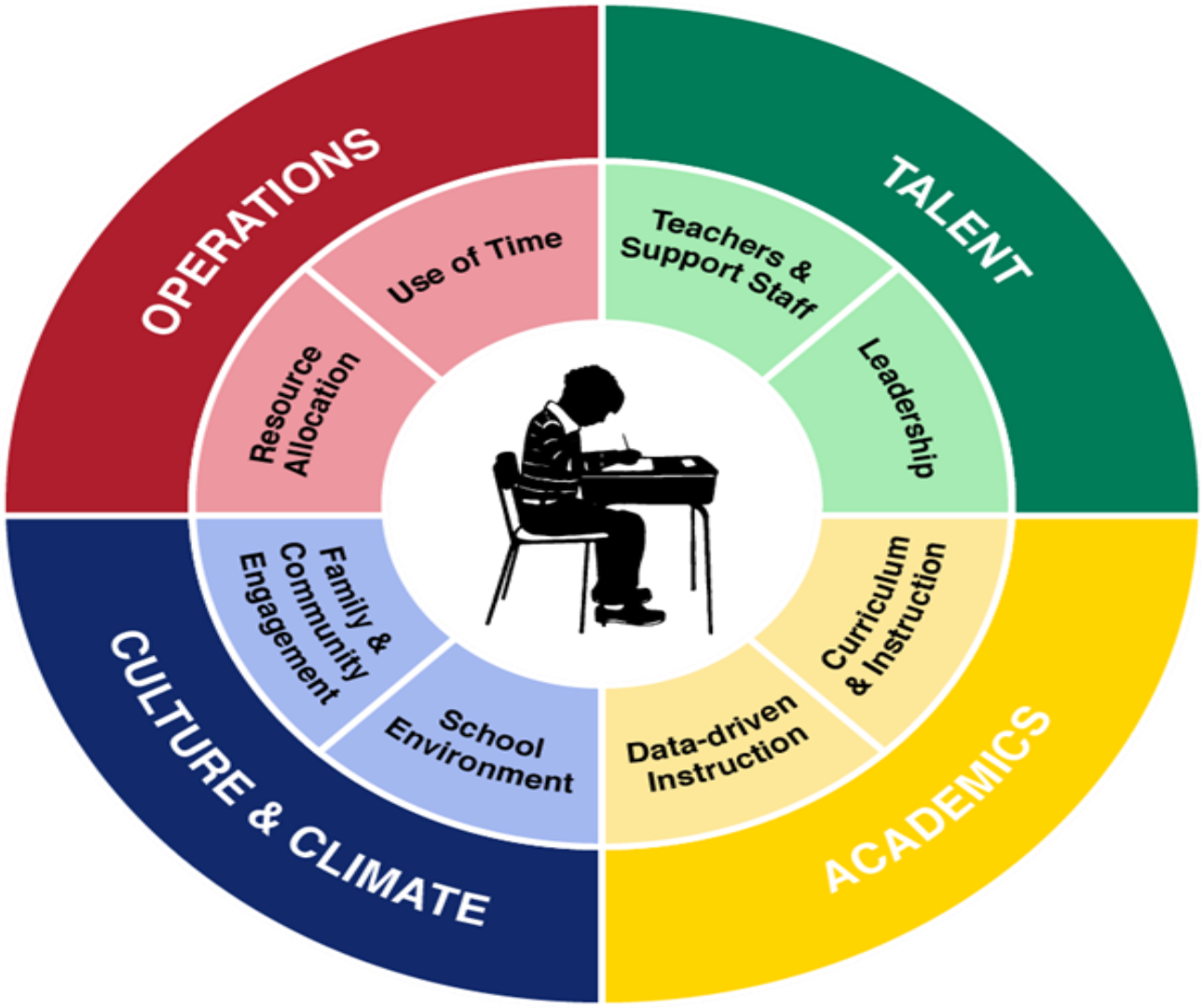
~ Initiative towards carbon neutrality by promoting Electrical bike facility within campus movement

~ The campus is full of Biodiversity – about 30 different floras are planted for beautification and different types of birds and insects are observed. ~ Eco-Friendly Committee

~ At most care is taken for Health and Safety Management.

~ For the entire stakeholders, the campus is like second home.

Ecosystem for Attaining Academic & Administrative Excellence



Mr. Riyaj Kazi
IQAC Coordinator

Principal

11. The institute's plan of action for the next academic year 2019-20

The plan of action for the academic year 2019-2020 includes the following:

1]To enhance the number of smart classrooms in the academic departments.

2]To introduce fully e-governance system for different administrative processes like, admission, academics administration, etc.

3]To strengthen the liaison among the stakeholders like, students, teachers, parents, employers, alumni etc.

4]To enhance collaborative research among the departments and to take initiative for interinstitutional collaboration

5]To conduct more seminars, conferences, and workshops of National and International importance at our campus.

6]To arrange staff development programs for nonteaching staff.

7]To protect the environment. We plan to conduct an Environmental Audit.

8]To strengthen industry linkages.

9]To strengthen National and International linkages.

10]To strengthen alumni engagement.

11]To establish incubation center.

12]To improve the ratio of PhD faculty members keeping in view the requirement of both Indian and International accreditations.

13]To submit major research proposals to various funding agencies for fetching research grants.

14]To submit the proposal to affiliating university for permanent affiliation.

15]To submit the proposal to UGC New Delhi for 2 (f) recognition.

16]A college intending to become autonomous under UGC.

FAROOK BASHIR SAYYAD

Digitally signed by FAROOK BASHIR SAYYAD
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Date: 2024.03.20 14:27:27 +05'30'