

Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution

ZEAL EDUCATION SOCIETY'S ZEAL COLLEGE
OF ENGINEERING AND RESEARCH

Name of the head of the Institution	Dr. Ajit Madhukarrao Kate
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02067206106
Mobile no.	9822014351
Registered Email	principal.zcoer@zealeducation.com
Alternate Email	ajit.kate@zealeducation.com
Address	S. No. 39, Narhe, Pune
City/Town	Pune
State/UT	Maharashtra
Pincode	411041
2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Semi-urban
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Dr. Pralhad Prabhakar Walvekar
Phone no/Alternate Phone no.	02067206133
Mobile no.	8975760046
Registered Email	iqac.zcoer@zealeducation.com
Alternate Email	pralhad.walvekar@zealeducation.com
3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://zcoer.in/wp-content/uploads/2021/08/AQAR_2018-19.pdf

4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://zcoer.in/academic-calendar/

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.04	2017	27-Nov-2017	26-Nov-2022

6. Date of Establishment of IQAC

15-Jun-2016

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Python training	11-Jul-2019 18	175
View File		

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

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
NIL	NIL	NIL	2020 0	0
View File				

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

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

2

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

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
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12. Significant contributions made by IQAC during the current year(maximum five bullets)

Python training Japanese language training Faculty visits to IITs

[View File](#)

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

Plan of Action	Achivements/Outcomes
Japanese language	Number of students trained were 195 and 22 students passed in Japanese N5 examination.
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14. Whether AQAR was placed before statutory body ?	No
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15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2020
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Date of Submission	16-Jan-2020
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The institute has a Management Information System namely Mastrocloud ERP. Following are the details of various modules, submodules and various faces available therein. 1) Academic: Registration Facility to complete New student registration process with merit list 2) Academic: Collect Fees: Collect Fees Regular student's admission process, Fees Collection, Fees Refund 3) Academic: Receipts Admission cancellation, Fees receipt cancel and reprint, Student Course Change, Fees
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type change, Student type change, Online payment request 4) Academic: Data Entry Student Information, Student Subject Updation, Roll number updation, Student data bulk updation, Student documents receipt, Student status, Outstanding Fees Reminder, Bulk SMS/Email, Send Notification 5) Academic: Student Reports Admission Reports: Online Registration, Provisional Admission Report, Student Status Report, Course and fees change type report, Course wise strength report, Student details export to excel, Admission Position report, Attendance Sheet, SMS send report, Student fee type student type report, Certificate Reports: Student ID Card generation, Duplicate TC report, Attempt certificate report, NOC certificate report, Date of Birth certificate report, Bonafide certificate report, Bonafide and course completion certificate, Estimate certificate report, Character/ Attendance Certificate, Address proof certificate, TC issued report, Issued certificate report, Documents submitted report, Demand letter, Sports Bonafide, MIS Reports: Student MIS, Student wise report, Management MIS report, Course wise MIS report, University Reports: University Report, Caste Category wise MIS report, University Examination List Report, Student Graphical Reports: Student Graphical Strength Report, Student Graphical Fees, Collection Report 6) Academic: Fees reports 7) Attendance: Registration 8) Attendance: Reports 9) Examination: Preexam 10) Examination: Result Process 11) Examination: Reports 12) Examination: Statistical Reports 13) Payroll: Basic details 14) Payroll: Monthly work 15) Payroll: Income tax transaction 16) Payroll: Configuration, 17) Payroll: Reports 18 Establishment: Leave transaction, application, Attendance, reports, configuration 19) Feedback: Transactions, reports 20) Mastersoft Cloud: Mobile App 21) Student Diary Cloud: Mobile App

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Following are some of the qualitative changes that have been incorporated in A.Y. 2019-20 to previous mechanism for well-planned curriculum delivery and documentation. 1. In order to make it handy and avoid misplacement of documents, the previous course file was divided in two files as course notes file and course file. 2. The contents of course file were revised and made it concise so as to make it applicable to all courses. 3. The contents of course notes file were University Syllabus copy, Concerned subject notes in handwritten form with chapter/unit wise separators/tags, University Question papers last 3 years, Hand written full solution of (immediate past -recent) two University Question papers i.e. In-Sem & End-Sem for TE & BE class. For SE, solution of two End Sem Papers 4. Live/real time applications were introduced in course notes file so as to make students aware about applications of the course in real life. 5. The contents of course file were Vision & Mission of the Institute & Dept, One page bio-data, Academic calendar of the Institute & Dept, Class & individual Time table, University Syllabus copy, Structure, course objectives and course outcomes, Teaching with lesson Plan of subject with list of text and reference book, Test Papers on each unit of 20 marks, University Result analysis of respective subjects for last three years, Question bank in hard copy on unit wise.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NIL	NIL	Nil	0	NIL	NIL

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NIL	Nil
View File		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nil	NIL	Nil

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	Nil	Nil

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Design of Three Phase Induction Motor Three Phase Transformer (in two batches)	03/02/2020	52
Design of Three Phase	10/02/2020	59

Induction Motor Three Phase Transformer (in two batches)		
Computer Aided Manufacturing (CAM)-CNC Programming, Simulation and Manufacturing	11/01/2020	13
Computer Aided Design (CAD) - Catia V5 R20	11/01/2020	19
Japanese Language	15/07/2019	107
STAAD-Pro software	06/01/2020	8
ETABS software	06/01/2020	8
Redhat Global Certification Training Program	24/06/2019	10
Training of Microsoft Certification course Cross Platform Mobile App Development	19/08/2019	14
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Electrical	4
BE	Mechanical	70
BE	Civil	14
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>Following are the qualitative changes that was introduced and implemented in A.Y. 2019-20 in addition to previous mechanism of feedback analysis and utilization in overall development of institute. 1. The alumni interaction sessions were planned in this academic year. The alumni feedback has been sought after each session. The alumni extended their cooperation in overall development of institute. 2. The parents could post their suggestions for overall development of the institute throughout the year via social media platform like whatsapp group in this academic year. The HOD and Principal could also address the issues raised from time to time.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Civil Engineering	60	28	28
BE	Computer Engineering First shift	120	118	118
BE	Computer Engineering Second shift	60	60	60
BE	Electrical Engineering First shift	120	24	24
BE	E&TC Engineering	60	33	33
BE	Information Technology	120	117	117
BE	Mechanical Engineering First shift	180	45	45
BE	Mechanical Engineering Second shift	120	4	4

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	2598	163	132	18	24

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
174	174	Null	50	50	Null

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

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

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

Following is the qualitative change that was introduced and implemented in A.Y. 2019-20 in addition to previous mechanism of Students mentoring system available in the institution. Guardian Faculty Member (GFM) system was effectively utilized for increasing the participation in python training and Japanese language learning programs in this academic year. This has resulted in participation of 175 and 195 students in python training and Japanese language learning programs respectively.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2761	174	1:16

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
191	174	17	54	22

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Dr Sachin Chavan	Professor	Samaj Bhushan Award
2020	Dr Rishikyash Kaakandikar	Associate Professor	Gurupnishad Samman Award
2020	Dr Rishikyash Kaakandikar	Associate Professor	Excellence in Education

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	ME	I/2019	02/01/2020	11/02/2020
BE	IT	I/2019	02/01/2020	11/02/2020
BE	ETC	I/2019	02/01/2020	11/02/2020
BE	EE	I/2019	02/01/2020	11/02/2020
BE	CO	I/2019	02/01/2020	11/02/2020
BE	CE	I/2019	02/01/2020	11/02/2020

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Following are the reforms that were introduced and implemented in A.Y. 2019-20 in addition to previous mechanism of Continuous Internal Evaluation (CIE) system at the institutional level. 1. The unit tests were conducted in two forms viz Multiple-Choice Questions (MCQs) and subjective theory questions. 2. Considering lock down due to out brake of COVID 19, the projects and seminars

were also evaluated using online platforms. The internal evaluation of students having network issues was done by taking telephonic viva.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Being an affiliated institute to Savitribai Phule Pune University (SPPU), the academic calendar is prepared before commencement of each semester of every academic year in accordance with academic calendar of SPPU. However, SPPU does not provide complete academic calendar at the beginning of each semester of academic year. Generally, the schedules of formative and summative examinations are provided at a later stage. Accordingly, Institute has to adjust the examination and other activity schedules. Due to out brake of COVID 19, the academic calendar of the institute for second semester could not adhered to conduct of examination and other related matters. The examinations and other activities are conducted by following guidelines given by SPPU time to time.

2.6 – Student Performance and Learning Outcomes

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

<https://zcoer.in/po-pso-and-co/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
CE	BE	Civil Engineering	61	61	100
CO	BE	Computer Engineering	181	167	92.27
EE	BE	Electrical Engineering	102	101	99.02
E&TC	BE	E&TC Engineering	57	57	100
IT	BE	Information Technology	80	79	98.73
ME	BE	Mechanical Engineering	296	280	94.59
MBA	MBA	MBA	57	57	100

[View File](#)

2.7 – Student Satisfaction Survey

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

[Not conducted due to pandemic situation](#)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	730	ASPIRE, Savitribai Phule Pune University (Mech)	300000	0
Major Projects	730	ASPIRE Research Mentorship Grant?is an ambitious research funding scheme (Electrical)	285000	0
Major Projects	730	ASPIRE, Savitribai Phule Pune University (IT)	200000	0
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Intellectual Property Rights	All departments	10/09/2019

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NIL	NIL	Nil	NIL
View File				

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	Nil
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
0	Nil

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

Type	Department	Number of Publication	Average Impact Factor (if
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			any)
International	Civil Engineering	3	2.47
International	Mechanical Engineering	10	2.26
International	Information Technology	17	0
International	Electrical Engineering	3	0
International	Electronics Telecommunication Engineering	17	0
View File			

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

Department	Number of Publication
Electrical	5
Civil	4
IT	1
Mechanical	2
View File	

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Predicting Biogasification Potential of Urban Wastewater Using Multiparameter Aggregated Index of Influent	GS Anaokar	Environmental Progress Sustainable Energy	2020	0	SV National Institute of Technology, Surat	Nil
Feasibility Study of Combined Softening and Disinfection of Water by Hydrodynamic Cavitation	GS Anaokar	International Journal of Innovative Research in Science, Engineering and Technology	2020	0	Zeal College of Engineering and Research	Nil

Stack emissions and health risk integrated (SEHRI) model: a tool for stack emissions and health risk modeling	Dr. P. P. Walvekar	Air Quality, Atmosphere Health	2019	0	Department of Civil Engineering, Zeal College of Engineering and Research, Savitribai Phule Pune University, Pune, Maharashtra, India	Nil
"SiC contents and pin temperature effect on tribological properties of Al ₂₅ Zn/SiC composites", International Journal of Refractory	Parmeshwar P Ritapure, Yashwant R Kharde	International Journal of Refractory Metals and Hard Materials	2019	5	Zeal College of engineering and research Narhe Pune	5
View File						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A comparative study and graphical analysis in designing and operation of Solar Thermal circular concentrator for enhancing efficiency of solar concentrating system	Dr.Kulkarni C.N.	E3S Web of Conferences	2020	1	Nil	Zeal College of engineering and research Narhe Pune

“SiC contents and pin temperature effect on tribological properties of Al ₂₅ Zn/SiC composites”, International Journal of Refractory	Parmeshwar P Ritapure, Yashwant R Kharde	International Journal of Refractory Metals and Hard Materials	2019	1	5	Zeal College of engineering and research Narhe Pune
Stack emissions and health risk integrated (SEHRI) model: a tool for stack emissions and health risk modeling	Dr. P. P. Walvekar	Air Quality, Atmosphere Health	2019	2	Nil	Department of Civil Engineering, Zeal College of Engineering and Research, Savitribai Phule Pune University, Pune, Maharashtra, India
Feasibility Study of Combined Softening and Disinfection of Water by Hydrodynamic Cavitation	GS Anaokar	International Journal of Innovative Research in Science, Engineering and Technology	2020	1	Nil	Zeal College of Engineering and Research
Predicting Biogasification Potential of Urban Wastewater Using Multiparameter Aggregated Index of Influent	GS Anaokar	Environmental Progress Sustainable Energy	2020	1	Nil	SV National Institute of Technology, Surat

[View File](#)

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	3	1	Nil	Nil
Presented papers	3	Nil	Nil	Nil
Resource persons	1	Nil	1	1
View File				

3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Tree Plantation and Conservation	NSS ZCOER	1	300
Seminar Olympiad On Human rights, Indian Judiciary System and The Constitution	NSS ZCOER	2	150
Swachha Bharat Abhiyan	NSS ZCOER	5	150
Road Safety Awareness Program	NSS ZCOER	10	150
Special Camp	NSS ZCOER	5	120
Ashadhi Ekadashi Dindi	NSS ZCOER	2	25
View File			

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NIL	NIL	NIL	Nil
View File			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swach Bharat Abhiyaan	Pune Municipal Corporation	Raigad fort cleaning	2	22
Tree Plantation and Conservation	NSS ZCOER	Tree Plantation and Conservation	1	300

Seminar Olympiad On Human rights, Indian Judiciary System and The Constitution	NSS ZCOER	Seminar Olympiad On Human rights, Indian Judiciary System and The Constitution	2	150
Swachha Bharat Abhiyan	NSS ZCOER	Swachha Bharat Abhiyan	5	150
Road Safety Awareness Program	NSS ZCOER	Road Safety Awareness Program	10	150
Special Camp	NSS ZCOER	Special Camp	5	120
Ashadhi Ekadashi Dindi	NSS ZCOER	Ashadhi Ekadashi Dindi	5	25
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Collaborative project (Baja)	24	Institute	183
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Spoken Tutorial Project, TCS Lab,Behind CAD Centre, IIT Bombay, Powai, Mumbai - 400076 91 22 25764229	RESOURCE Centre for Pune District	Spoken Tutorial, IIT Bombay	31/08/2019	31/08/2019	153
Spoken Tutorial Project, TCS Lab,Behind CAD Centre, IIT Bombay, Powai, Mumbai - 400076 91 22 25764230	RESOURCE Centre for Pune District	Spoken Tutorial, IIT Bombay	14/09/2019	14/09/2019	309

Spoken Tutorial Project, TCS Lab,Behind CAD Centre, IIT Bombay, Powai, Mumbai - 400076 91 22 25764230	RESOURCE Centre for Pune District	Spoken Tutorial, IIT Bombay	05/10/2019	05/10/2019	167
Spoken Tutorial Project, TCS Lab,Behind CAD Centre, IIT Bombay, Powai, Mumbai - 400076 91 22 25764230	RESOURCE Centre for Pune District	Spoken Tutorial, IIT Bombay	04/01/2020	04/01/2020	19
Spoken Tutorial Project, TCS Lab,Behind CAD Centre, IIT Bombay, Powai, Mumbai - 400076 91 22 25764230	RESOURCE Centre for Pune District	Spoken Tutorial, IIT Bombay	12/02/2020	12/02/2020	126
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3.5.3 – 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
CY9 India Pvt. Ltd.	11/06/2020	Job opportunities in Cyber Security,artificial intelligence, deep learning, and software development	80
PSP-IP	17/06/2020	Patent Filing	120
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
79	75

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
No file uploaded.	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
AutoLib	Fully	AutoLib-NG	2012

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	27450	10738051	1091	543119	28541	11281170
Reference Books	2382	2442487	217	205040	2599	2647527
e-Books	11733	2489350	Nill	Nill	11733	2489350
Journals	1170	3562919	99	279444	1269	3842363
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

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

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	1132	33	1132	1	1	18	7	155	0
Added	130	0	130	0	0	12	0	0	0
Total	1262	33	1262	1	1	30	7	155	0

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

500 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and
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	recording facility
Springer E-Book	https://link.springer.com/search?facet-content-type=%22Book%22&showAll=false
ASME	http://asmedigitalcollection.asme.org/journals.aspx
J- Gate (JET)	https://jgateplus.com/home/
National Digital Library (NDL)	https://ndl.iitkgp.ac.in/
NPTEL Videos / Notes Access and Download	http://172.16.1.20/localguru/

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
232	220	303	288

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

<p>The overall housekeeping was outsourced to an external agency named Duster. The estate manager used to take review of housekeeping work regularly. The non-compatible computers for updated syllabus were written off and new computers were purchased for utilization and to meet the current syllabus demand. The annual maintenance contract (AMC) was given for common facilities like lifts, batteries etc.</p>
In Process

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	NIL	0	0
Financial Support from Other Sources			
a) National	Rajarshi Chhatrapati Shahu Maharaj Shikshan Shulkh Shishyavrutti Yojna (EBC)	980	41971043
b) International	NIL	Nil	0
View File			

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

Name of the capability	Date of implemetation	Number of students	Agencies involved
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enhancement scheme		enrolled	
Aptitude and Soft Skills training programme	01/07/2019	1560	Gyanteerth Academy LSL Team
Employability Skill Development Programme	26/08/2019	76	Zensar Technologies
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Guidance for Competitive examination and Career Counseling activity by Chanakya team	200	200	21	21
2019	Guidance for Competitive examination and Career Counseling activity by Dysp Jitendra Jadhav	500	500	21	21
2019	Guidance for Competitive examination and Career Counseling activity by Dysp Dipali Kale	322	322	21	21
Nil	Guidance for Competitive examination and Career Counseling activity by Tahsildar Vaishali Patil	219	219	21	21

2019	Guidance for Competitive examination and Career Counseling activity by AMVI N.M. Gambhir	117	117	21	21
2019	Guidance for Competitive examination and Career Counseling activity by PSI vikas Patil	98	98	21	21
2020	Guidance for Competitive examination and Career Counseling activity by Api suraj Mulani	118	118	21	21
2020	Guidance for Competitive examination and Career Counseling activity by API Reshma mulani	210	210	21	21
2020	Guidance for Competitive examination and Career Counseling activity by DC Anil Karande	311	311	21	21
2020	Guidance for Competitive examination and Career Counseling activity by Anil Kate	99	99	21	21

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

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

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Amazon (PC)	223	24	Equation Work	21	Nil
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	2	Engineering	Civil	VIT, Pune AISSMS, Pune	Water Resource Environmental Engineering, Structural Engineering
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	17
Civil Services	7
GRE	1
TOFEL	1
CAT	1
Any Other	5
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
"Viveksindhu" Speaker Competition	State	100
"Navratri Dandiya Event"	Inter-College	1200
"Cultural Competition-Dance, Singing, Music Band, Drama, Poetry, Standup-	Inter-College	500

Comedy"

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Firodiya Karandak	National	1	2	Zprn-1170397, Zprn-1170300	Shubhamk aroti Rawalekar, Saurabh Sutar
2019	Dajikaka Karandak	National	1	1	Zprn-1180698	Aadesh Chavan
2019	Bharat Karandak	National	1	2	Zprn-1170807, Zprn-1180698	Sidhlesh Ghadage, Aadesh Chavan

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

The various activities related to students are coordinated under Student Council. The secretary and members decided the coordinators for the various activities carried out in the campus. The student council members put up the issues/problems of the students to Principal/Campus director following the proper protocol. The issues/problems raised by the students were resolved by authority at the earliest. The activities carried out in the campus are - 1. Nirmaan 2. Talentron 3. Annual Sports (Rangaan) 4. Teachers Day celebration 5. Engineer's day celebration 6. Farewell program 7. Alumni meet Convocation ceremony and many more.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

the institution has registered Alumni Association. The registration number is as follows. MH/2099/2016/Pune Dated 22/12/2016 Vision: "To be recognized as, one of the best alumni community, where every member contributes for diverse needs amp interests of community." Mission: "To establish cluster of alumni for interpersonal amp communal benefits of all existing amp aspiring members of the community by providing them platform to be connected with one another for sharing of valuable thoughts, updates in profession amp being a real friend for lifetime." Objectives and Functions: Recognition of Alumni Working in different industrial domains amp bringing in continuous communication with them. Registration of Alumni Association amp formation of governing body for the same. Guidelines of IQAC and submission of AQAR for Affiliated/Constituent Colleges Page 37 Collection of funds for strengthening association and making it capable to stand in reference of needy ones. Arranging Annual function for sharing of deep emotions about Alma Mater amp putting innovative ideas before the management for overall improvement. Creation of alumni web portal amp maintaining the database of respective pass-out batches. Sharing of community updates through social networking. Looking for contribution of alumni members

to enhance practical knowledge of students and imbibe them with advanced technologies being used in industry.

5.4.2 – No. of enrolled Alumni:

688

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

No meeting was organized due to pandemic situation.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

1) The certification programs were conducted and completed in respective departments. 2) The co-curricular and extracurricular activities were conducted under student associations in respective departments.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	The existing mechanism is continued
Industry Interaction / Collaboration	Institute has decided to strengthen industry institute interaction by ? Increasing number of MoUs and taking periodic feedback for its execution. ? Conducting HR meets to develop the interaction with nearby industries for improvement in placement, quality of project work, revenue generation through consultancy. ? Increasing number of industrial visits by students and faculty members
Human Resource Management	The existing mechanism is continued
Library, ICT and Physical Infrastructure / Instrumentation	No new strategies are adopted as the existing facilities are more than adequate and utilised almost optimally.
Research and Development	Preparation of research file by each faculty which contains documentation of all research activities carried out by individual faculty member(s). The close monitoring of every individual's research file is done by Dean, RD. Accordingly necessary Guidelines of IQAC and submission of AQAR for Affiliated/Constituent Colleges Page 39 support has been extended to strengthen the research.

Examination and Evaluation	The usage of Google Classroom was introduced in examination and evaluation. Online unit tests, viva, seminar and projects were effectively completed using this platform.
Teaching and Learning	The usage of Google Classroom was introduced in teaching learning process. Online classes, assignments and its submission and sharing of class material was effectively completed using this platform.
Curriculum Development	Being the affiliated institute, the institute implements the curriculum prescribed by Savitribai Phule Pune University (SPPU), Pune.

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

E-governance area	Details
Planning and Development	Academic planning, student daily and monthly attendance, teaching plan, students attendance monitoring, student feedback
Administration	Human Resource Module, online leave applications and approval, employee attendance, time sheet
Finance and Accounts	Employee payroll for present days and salary sheet preparation
Student Admission and Support	Student and parent information details, ID card generation, student login for attendance, fees paid status, learning material
Examination	Preparation of examination time table, allocation of class rooms

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Prof. Abhijeet Karve	NIL	IEEE	5540
2019	Prof. Paranili joshi	NIL	IEEE	5540
2019	Prof. Amar Chadchankar	NIL	CSI	7080
2019	Prof. Rahul Bhole	NIL	CSI	7080
2019	Prof. Paranili joshi	NIL	CSI	7080

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6.3.2 – 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)
2019	eSim workshop by IIT Bombay at APCOER, Pune	NIL	21/09/2019	21/09/2019	5	1
2019	Faculty Development Program on Machine Learning, Deep Learning with Artificial Intelligence	NIL	09/12/2019	13/12/2019	8	1

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
2 months FDP on C programming in association with Spoken Tutorial, IIT Bombay	2	05/04/2020	13/04/2020	7
Teaching Learning Practices in Foundation Engineering	8	10/12/2019	14/12/2019	5

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
109	174	34	124

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Employee insurance scheme	Employee insurance scheme	1. Karmveer Bhaurao Patil Earn and Learn Scheme under SPPU. 2. Special Guidance Scheme for first year engineering Students.

6.4 – Financial Management and Resource Mobilization

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

The institute has a mechanism for internal and external audit as follows.
Mechanism for internal audit: • The board of trustees of Zeal Education Society appoints internal auditors for conducting internal audits of its institutes. • The team of one institute conducts audit for the other institute. The audit report is submitted to Principal and management. • The Principal and accountant take care of doing compliance of the objections raised if any.
Mechanism for external audit: The statutory audit is conducted once every year by registered Chartered Accountant firm. External Auditor: R. S. Khan Co., Chartered accountant, Shop No. 15, Sai Heights, Shri Nagar, Nanded - 431602. Last Date of Audit: 26.10.2020

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NIL	0	0
View File		

6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	NIL	Yes	Academic Monitoring Committee
Administrative	No	NIL	No	NIL

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

As there is no statutory provision of affiliating University and State Government of Maharashtra to have official parent teacher association, the institute does not have official Parent-Teacher Association. However, the support is taken from parents working in industries for arranging industrial visits, providing internship, expert talks, increasing industry institute interactions, engagement of students in sponsored projects and placements.

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

The institute supports to participate in 1. Hands-on training on advanced excel 2. Session on "Team Spirit" by Dr. A. M. Kate 3. Session on "Stress management"

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

1. Python training 2. Japanese language training 3. E-content development

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Python training	11/07/2019	11/07/2019	30/07/2019	275
2020	Japanese language training	19/07/2019	19/07/2019	05/02/2020	195

[View File](#)**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES****7.1 – Institutional Values and Social Responsibilities**

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
The Sexual Harassment of Women at the Workplace (Prevention, Prohibition and Redressal) and the Role of Internal Complaint Committee	03/03/2020	03/03/2020	50	49
Awareness and Safety	19/12/2019	19/12/2019	40	35

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

Percentage of power requirement of the University met by the renewable energy sources

A 120kW Solar system is installed in September 2017 as a part of an alternate energy initiative. Percentage of power requirement of the College met by the solar system is 41-45.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries

Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nil
Rest Rooms	Yes	1
Scribes for examination	Yes	1
Special skill development for differently abled students	No	Nil
Any other similar facility	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	08/12/2019	20	Zeal Maths Olympiad Examination	Add on facilities available, skill development. Music and dance studios, incubation centre	1620
View File							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
In process	Nil	In process

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Tree Plantation and Conservation	17/08/2019	17/08/2019	300
Seminar Olympiad On Human rights, Indian Judiciary System and The Constitution	13/02/2020	13/02/2020	150
Swachha Bharat Abhiyan	02/10/2020	02/10/2020	150
Road Safety	23/09/2019	23/09/2019	150

Awareness Program			
Special Camp	27/02/2020	02/03/2020	120
View File			

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

1. Dust proof pavements for internal roads
2. Lush green playground maintained using sprinkler irrigation system
3. Road side plants maintained using drip irrigation
4. Regular energy audit
5. Regular monitoring of air quality using dust sampler in campus

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

The institute has adopted the following two best practices in AY 2019-20. Best Practice 1: Japanese language training for students Japan, is undoubtedly the most technically advanced country. Japan has proved to be a leading force for research and development in many industries - from engineering and pharmaceuticals to robotics - and also has a strong academic community with a driven spirit as evidenced by its 26 Nobel Prize winners. Japanese company provide job stability and offer decent employee benefits like medical care, pension, some cases travelling too. The Specified Skilled Worker (SSW) is a category created by Japan in April, 2019 to accept foreign nationals who have a certain level of expertise and skill to fill vacancies arising in specific sectors because of declining population and ageing society in that country. To meet the market needs of Japan, there are ample job openings for skilled workers and Engineers. We therefore decided to encourage the students to seize these opportunities by providing Japanese language training. To make students aware of the same, an Induction seminar was conducted on 19.07.2019 in which more than 400 students participated. Considering the enthusiasm of the students, we took the initiative to launch a certification course on Japanese language. It was highly appreciated and around 250 students enrolled for Q5/N5 certification course. Considering the requirement of language proficiency for placements, students are encouraged to undergo till Q3/N3 certification. Following are the statistical details of course conducted. 1. Total Duration (hrs.): 120 2. Commencement of the Course: 22.07.2019 3. Completion of the Course: 08.02.2020 4. No. of students Enrolled: 245 5. No. of students completed Q5 certification: 22

Best Practice 2: Establishment of Life Skill Department Academic learning is the foundation of formal education. However, we humans being a social tribe, one cannot deny the importance of social skills. As our workforce is going global, we need strong technical skills as well as impeccable people skills to succeed. To mark an impression on a global front, one needs to wear different hats which require different skills set. Our domain knowledge, acquired skills, and attitude towards work and people, elevates us from the rest. Along with technical skills it is necessary to think innovatively and creatively to solve problems. Skills such as adaptability, flexibility, innovation, self-discipline, etc. are in demand. Acquiring these skills is a continuous process which is seldom developed in a week or two. It requires continuous practice and perseverance to build the right personality to join the workforce. No matter how difficult it seems to measure these skills but it's essential for overall growth and success. To provide an ease in Placement activities, AMCAT Employability test is conducted for the S.E./ T.E. / B.E. students. It comprises of Aptitude and Domain specific questions. Results show that our students are lacking in English section and this lacuna is visible in their communication skills. Every academic year, almost 100 companies visit our campus for the recruitment process. Noticeable feedback from the HRs includes, 'Improvement in Communication skills'. Since many students come from vernacular background, one must work on accent

neutralization. Considering the above mentioned points and identifying the need of the hour, we took a great initiative of introducing Life Skills Lab (LSL) as a Department at Zeal Education Society. In this Life Skills Department we work on student's people skills, which help them to stand out and achieve their goals fearlessly. Concerns we address:

- Communication Skills: (Business / Interpersonal Communication Skills) One of the fundamental qualities which the recruiters look for is good communication skills. As companies need to deal with various clients, one must be fluent in oral and written business communication. A good communicator can communicate his thoughts, ideas and concerns assertively. Under LSL, students are well trained in verbal and non-verbal communication.
- Confidence Building: Confidence is the belief in one's ability and capacity to achieve the set objectives. It is one of the most important abilities to master. In LSL, we develop students' self-confidence and build high self-esteem through different activities.
- Teamwork and Its Importance: Working in a team will always be an inevitable part of our career. One needs to get the work done by making all the members work together in harmony. One must know how to collaborate and resolve conflicts if arises. Students are made aware of the importance of building trust and team-work through experiential learning. Some other Skills what we work on are: Quantitative Ability Logical Reasoning Extempore Group Discussion Presentation Skills Resume writing Business Communication Self-Awareness Introduction to different Interview Mock Interviews

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

<https://zcoer.in/wp-content/uploads/2021/08/7.2.1-Best-Practices-2.pdf>

7.3 – Institutional Distinctiveness

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

Every academic year, almost 100 companies visit our campus for the recruitment process. Noticeable feedback from the HRs includes, 'Improvement in Communication skills'. Since many students come from vernacular background, one must work on accent neutralization. Identifying the need of the hour, we took a great initiative of introducing Life Skills Lab (LSL) as a Department at Zeal Education Society. In this Life Skills Department we work on student's people skills, which help them to stand out and achieve their goals fearlessly.

Concerns we address:

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Provide the weblink of the institution

<https://zcoer.in/wp-content/uploads/2021/08/AY-2019-20.pdf>

8.Future Plans of Actions for Next Academic Year

1. To provide all safety measures in institute premises as per the guidelines received from government authorities. 2. To provide common competent learning platform for smooth conduction of academics through online mode 3. To prepare and provide learning material in digital form as an immediate requirement of the students 4. To provide e-content development facility