



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
Name of the head of the Institution	Dr. Shashikant Annarao Halkude
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	0217-2653040
Mobile no.	9422457776
Registered Email	principal.witsolapur@gmail.com
Alternate Email	halkude60@gmail.com
Address	Seth W.H.Marg, Ashok Chowk
City/Town	Solapur
State/UT	Maharashtra
Pincode	413006

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Semi-urban			
Financial Status		private			
Name of the IQAC co-ordinator/Director		Dr. Sachin Ratikant Gengaje			
Phone no/Alternate Phone no.		02172652700			
Mobile no.		9028874000			
Registered Email		principal.witsolapur@gmail.com			
Alternate Email		gosachin22@gmail.com			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		http://witsolapur.org/igar.php#			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		https://www.witsolapur.org/academic-calendar.php			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A+	3.26	2018	30-Nov-2018	29-Nov-2023
6. Date of Establishment of IQAC			02-Jan-2017		
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	
Comprehensive feedback from all stakeholders shall be collected and		02-Jul-2018 365		2856	

analyzed		
Annual internal Academic Audit of all programs shall be carried out. An action plan shall be prepared for improvement in consultation with faculty and staff	03-Sep-2018 13	2818
Institute shall participate in National Institute Ranking Framework NIRF	08-Sep-2018 82	2818
Institute shall participate in survey like AICTE-CII Survey	03-Jul-2018 30	2818
Accreditation of institute by NAAC	15-Oct-2018 02	2818
Accreditation of four UG programmes by NBA	26-Oct-2018 03	2818
IQAC meeting of July	03-Jul-2018 11	2818
IQAC meeting of February	02-Feb-2019 12	2818
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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
Dr. Sachin R.Gengaje	ELearning Centre	AICTE	2017 1095	2505000
Dr. Shashikant A. Halkude	Research Promotion Scheme (RPS)	AICTE	2017 1095	2352941
Dr.S.S.Patil	MODROBS - Mod. & Removal of Obsolescence of transportation engg. Laboratory	AICTE	2017 730	1020952
Dr. S.A.Halkude	Travel Grant	AICTE	2019 365	103563
Dr. S.S.Patil	National Ambient Air Quality Monitoring Program	Maharashtra Pollution Control Board, Govt. of Maharashtra	2019 365	610000
Dr. S.S.Kashid	RPS - Research Promotion	AICTE	2016 1065	2098000

	Scheme			
Dr. S.A.Halkude	RPS - Research Promotion Scheme	AICTE	2013 1065	2323334
Dr. S.K.Dixit	RPS - Research Promotion Scheme	AICTE	2013 1065	539584
Ms. A.V.Thalange	CAYT - Career Award for young Teacher Awardee	AICTE	2013 1065	297000
Dr. K.H.Jatkar	MODROBS - Mod. & Removal of Obsolescence	AICTE	2013 365	1780000
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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
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
All faculty introduced Learner Centric MOOC (LCM) activity: Partial LCM is created for 180 courses with 1041 total videos in the institute. LCM has improved the student's learning.	
Efforts to have paid internships for students and more focus on the conversion of students' internships into placement. 53 Paid Internships and 16 internships converted into placements. Overall student placement has improved qualitatively quantitatively.	
Students are encouraged to use platforms such as Hacker Rank, Hacker Earth, etc. for improving problem solving skills through programming: Nearly 300 students are benefited. Two teams participated in Smart India Hackathon 2019.	
Web Proctored assessment has become part of campus recruitment. Therefore to facilitate proctored evaluation, 25 AOI (Allinone) Computers are procured with	

which nearly 600 students are benefited. 22 high end other 25 computers have facilitated projects in Mobile Application Development (MAD) Machine Learning.

Spoken Tutorial is subscribed for training:36 technical staff successfully completed course on 'Linux' and 20 technical staff on Moodle.

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

Plan of Action	Achievements/Outcomes
Special training on Python by in house faculty & industry experts shall be arranged to improve quality placements through InfyTQ / HackwithInfy, TCS Ninja / Codevita competitions for all the students, where expertise of Python is essential	Nearly 205 students benefited
One hour everyday training for employability enhancement of students shall be imparted for all SE, TE, BE students	Employability of students is enhanced resulting into overall improvement in placement.
For facilitating Web Proctored assessment for campus recruitment. Institute shall procure All In One (AIO) Computers. Also high end computing machines shall be procured for projects.	25 AOI (Allinone) Computers are procured with which nearly 600 students are benefited. 22 high end other 25 computers have facilitated projects in Mobile Application Development (MAD) Machine Learning.
Self learning ability of the students shall be nurtured by making them enrolled for various courses available on MOOC platform	2720 students registered for various NPTEL courses. 582 students are benefited with credit transfer of NPTEL course to regular curriculum course.
All faculty shall introduce Learner centric MOOC (LCM) activity	LCM is created partially for 180 courses with 1041 total videos in institute. LCM has improved student's learning.
Innovations in Teaching-Learning shall be continued with introduction of additional instructional strategies and ICT tools.	Innovations in Teaching-Learning process employing 15 instructional strategies & 10 ICT tools have improved student's learning. Outcome of these innovations is 6 research publications
All faculty members shall attend at least one FDP/Workshop/MOOC for upgradation.	Overall 548 course certifications are done by faculty members.
Faculty shall generate funds through various govt/ non govt funding schemes, sponsored projects and consultancy	Revenue of Rs. 2272000/ is generated through consultancy. Three AICTE funded projects are in progress and total funds sanctioned is Rs. 5878893.00/
Efforts to have paid internships for students and more focus on conversion	53 Paid Internships and 16 internships converted into placements.

of students' internship into placement					
Students shall be encouraged to use platforms such as Hacker Rank, Hacker Earth etc. for improving problem solving skills through programming	300 students are benefited. Two teams participated in Grand Finale of Smart India Hackathon 2019.				
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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of Statutory Body</th> <th style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Governing Body</td> <td style="text-align: center;">21-Jan-2020</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Governing Body	21-Jan-2020
Name of Statutory Body	Meeting Date				
Governing Body	21-Jan-2020				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes				
Date of Visit	15-Oct-2018				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2019				
Date of Submission	16-Jan-2020				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Functioning of various modules of our MIS system is as follows:</p> <ol style="list-style-type: none"> Student Management Module In this module student registration is done in the software when student gets admitted in the college. All the information of the student, his family information, his previous education details, subject allocation and attendance is recorded. From these records we get Course wise, Area wise, Date (Period) Wise, Gender Wise, Case Category wise Student List, Total Institution's Students matrix report (as per Classes Sec. Detail). Various certificates required by students are generated through this module. The MIS helps faculty to track data such as attendance and performance. But, more importantly, MIS reduces the workload on teachers by providing quick access to data of student/group of students as required classification wise. Fees 				

Collection In this module, Fee allocation to Classes, Previous Dues Update (Student wise), Fee Generation (One Time for whole year/ Student wise), Fee Collection, Fee Receipt generation is done. We get reports like Fee category wise student data , Day wise fees collection, Class wise fees collection, outstanding fees report . Fee collection is done through payment gateway.

3. HR/ Payroll The detailed information of all employees like Personal Details, Joining Details, Scale, Grade, Department and Designation Details, Basic Pay and Allowances Details, PF, ESI and PAN Details, Bank Details, Family Details are recorded. Salary is processed monthly, based on attendance of employee. Reports like Monthly Paysheet, Pay slip of each employee, Annual salary report, EPF Challan, Income tax calculations, Form 16 generation Loans arrears.

4. Leave Management System Leave records of all employees are maintained. Reports like employee wise, Leave type wise reports are generated

5. Accounts All financial transactions entry is done in the accounts module all accounts statements like ledger wise reports, Receipt Payment Account, Balance sheets, etc. all are generated

6. Inventory Procurement This module takes care from requirement generation to procurement of material. Also, the Inventory management reports related to inventory are generated.

7. Library Management In the Library module, the barcode labels are generated through the software. Books are scanned using barcode scanners while issue return of the books to students faculty. OPAC enables student faculty to know the book titles, their availability and accordingly, they can post their claims from any computer in college campus.

8. Hostel Management The information of Students residing at hostel their room allotments is done through this module. Accordingly room wise, area wise, class wise reports are generated

9. Alumni Management This module Keeps track of our alumni. Alumni can register any time update his/her profile.

10. Training and Placement The module keeps track of training and placement activities. Details of campus drives

conducted are maintained. This tool is designed keeping need of the various stakeholders on priority basis and solves every query of administrator. MIS manager can evaluate and efficiently manage a department within an organization. All past, present information is helpful in decision making and designing a new strategy of an organization.

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

Being an affiliated institution, we follow the course curriculum prescribed by PAH. Solapur University (PAHSUS), which is continuously revised. As pioneering institute of Maharashtra and PAHSUS, many of our senior faculty members contribute in development of curriculum at University. Each department have at least one representative on Board of Studies (BoS) of the university. Few are members Academic Council and Senate. Curriculum is developed in consultation with experts and various stakeholders in line with the needs of industry, various professional bodies and model curriculum by AICTE. The curriculum follows Choice based Credit System and effectively implements various aspects of Outcome Based Education. It also includes Self Learning Electives and NPTEL courses with necessary credit transfer. The institute has its well-defined process to plan and execute activities for effective implementation of the curriculum delivery through its Academic calendar. The academic calendar includes teaching plan, schedule of assignments and quizzes, stakeholders' meet, In-Sem Evaluation and End-Sem Evaluation, Industry visit, Internship, co curricular & extracurricular activities. On the basis of Institution academic calendar, department and teachers prepare their calendar and teaching plans respectively for every theory and practical subject for minimum of 15 weeks. Every semester, time-table preparation and subject allocation is done well in advance. Subject allocation is done based on area of specialization of faculty, qualification and experience. Objectives and outcomes are defined for every course. On the basis of stake holders' feedback and attainment of outcomes, the identification of curriculum gap is done and the schedule is prepared for overcoming these through planned content beyond curriculum. Also the action plan for non-attained POs/PSOs is prepared to ensure attainment. Delivery of course curriculum includes width and depth beyond course curriculum. Faculty competency is ensured through qualification while recruitment & training for newly introduced courses in the curriculum through workshops organized by various industries, IITs, and NPTEL online courses so as to achieve effective delivery. To improve performance of the weaker students, remedial classes are planned. As direct second year students join the semester late, make-up classes are conducted by faculty for every course. The institute also offers skill development and value-addition courses for students. Faculty uses various active learning strategies while delivering lectures so as to enhance the critical thinking and problem solving ability of the students. Faculty have created Open Educational Resources (OERs) to enrich students learning using various ICT tools and techniques. Assessment of students is done during the semester through "In Semester Evaluation (ISE)" and "Internal Continuous Assessment (ICA)". ISE is based on student's performance in three tests and

additional assignments specific to course conducted during semester. ICA is based upon student's performance in lab and tutorials. At the end of semester student has to appear for a university exam i.e. End Semester Evaluation (ESE). Assessment of COs, POs and PSOs is a regular activity and carried out as per very well designed process. The outcome of this assessment is the yard stick for faculty for better delivery of all educational activities of next cycle.

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
PMKVY- Construction Laboratory and Field Technician	-----	12/11/2018	70	Employability in the construction Industry, Quality Control Laboratory in Govt. and Non Govt. Agency	Testing of materials in construction industry • Field Quality control
PMKVY Television Repair Technician Course -	-----	22/11/2018	91	Employability as a field technician in companies which provides television sales and service to the customer	Various fault finding of Modern TV sets • Repair maintenance of TV sets
PMKVY- Junior Software Developer	-----	12/11/2018	74	Employability in the software industry for one of the entry level roles including support and help desk, testing, user interaction, design, maintenance, enhancement and documentation.	Performing software development and testing entry level tasks in IT services. • Providing data or information in a structured format. • Developing knowledge, skills and competence to become a software developer.
PMKVY: Lathe Operator Level-4	-----	12/11/2018	132	Employability as a lathe operator in companies providing	Develop the skill for operating lathe machines and

machining facility.
using precision measuring instruments to manufacture components as per given drawing.

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

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

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

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

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

	Certificate	Diploma Course
Number of Students	70	0

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
SLH32: Software Licenses and Practices	01/01/2019	146
SWAYAM NPTEL: Developing Soft Skills and Personality	27/08/2018	523
SWAYAM NPTEL: Soft skills	30/07/2018	61
SWAYAM NPTEL: Technical English for engineers	06/08/2018	39
SWAYAM NPTEL: English Language for Competitive Exams	30/07/2018	38
C116 : Communication Skills	01/07/2018	512
C126 : Professional Communication	01/01/2019	512
C127 : Democracy, Election and Good Governance	01/01/2019	512
ENV22: Environmental Studies	01/01/2019	616
SLH31: Professional Ethics	01/07/2018	96

Human Values

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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	Civil Engineering(Field Projects)	22
BE	Mechanical Engineering (Field Projects)	12
BE	Civil Engineering (Internship)	75
BE	Mechanical Engineering (Internship)	117
BE	Electronics & Telecommunication Engineering (Internship)	157
BE	Computer Science & Engineering Engineering (Internship)	146
BE	Information Technology (Internship)	66
BE	Electronics Engineering (Internship)	71

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

Institute collects 360 degrees feedback from its all stake holders, analyzes it using various metrics and utilizes its outcome for overall improvement of the institute. Students, alumni, employers, industry experts, faculty and parents contribute to various feedback/survey conducted in different modes like MOODLE, pen paper, mail, website and through informal oral discussion. Below are some of the specific feedback / surveys conducted regularly? 1. Student's satisfaction survey: This survey is conducted once a year on MOODLE platform and its analysis is made available to all stake holders on institute web site. Student's give rating about the overall teaching-learning process and infrastructural facilities 2. Student's course outcome survey: This survey is conducted after complete delivery of each course and assesses the attainment of course outcomes through student's perception. Results are used in calculation of attainment of COs and for better delivery of course in next cycle 3.

Student's exit survey: Graduating students participate in this survey giving objective subjective opinion about their total learning experience in four years. Result of this survey is used for improvement of teaching-learning process as well as infrastructure augmentation. 4. Student's feedback on Teaching -Learning: Student gives feedback about teaching of every teacher. This feedback is administered twice in a semester on MOODLE. First feedback is conducted few days after commencement of semester. Flaws in teaching, conveyed through first feedback, are immediately discussed with teacher along with the remedial actions. Second feedback is conducted few days after first feedback to ensure effective implementation of remedial actions suggested. 5. Alumni feedback: Alumni regularly visits institute individually or through organized alumni. Their formal feedback (through a well designed form) as well informal discussion with them provides vital input which is utilized for curriculum updation, student's projects, placement training etc. 6. Employer's feedback: Employer's perception regarding their employees who were the student of this institute is regularly collected by training placement office of the institute. This opinion of employer is then made use of to get better training activities of present students for placement. Employers other iIndustry persons interact with faculty of the institute on various occasions and visits. Curriculum design and updation, student's training on upcoming technology requisite, student's projects and internship, faculty training at industry, joint research development with industry are some of the spheres benefited because of such interaction 7. Parent's feedback: Parents give their input through regular parent's meet organized at department. Infrastructural facilities, college timings, training for placement etc are some of the areas discussed and improved through such feedbacks. Feedback collected is processed and various metrics are calculated and accordingly shortcomings in teaching learning process are overcome through counseling and corrective action/s. As well the feedback taken from various stakeholders is analyzed along with the program outcomes/ course outcomes and used to plan and deliver the content beyond the course curriculum along with exposure to cutting edge technologies. These findings are reported to university for revising the course curriculum. Academic infrastructure required for insuring the effective delivery of curriculum is taken care

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
Mtech	Computer Science & engineering	18	123	5
Mtech	Mechanical Design	18	123	7
Mtech	Electronics Engineering	18	123	7
Mtech	Civil Structural Engineering	25	123	6
BTech	Mechanical Engineering	120	104223	117
BTech	Electronics Engineering	60	104223	55

BTech	Electronics & Telecommunication Engineering	120	104223	116
BTech	Information Technology	60	104223	58
BTech	Computer Science & Engineering	120	104223	109
BTech	Civil Engineering	60	104223	60
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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
2018	2469	49	128	6	16

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
150	141	16	21	4	33

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

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

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

The institute has a well defined and practiced Student Mentoring System and it is operational since inception. The mentoring system at WIT has proved useful and helps students for – 1. Psychological counseling for personal issues 2. Academic counseling 3. Career guidance The institute practices two tier mentoring system through -1. Batch mentoring 2. Mentoring through central counseling cell 1. Batch Mentoring System A group of about 20 students is assigned to a faculty mentor who regularly interacts with his mentees in a group or individually. The mentor tries to resolve academic issues of the students and also motivates mentees for their career building. Mentor also takes efforts for all round development of mentees. In case of any other issues the batch mentor is also assisted by the concerned class coordinator/relevant expert. Although, the mentor meets his mentees in a group as per regular schedule, he is always available to interact with any of his mentee individually in case of any urgent issue. 2. Mentoring through Central Counseling Cell The next level of mentoring is carried out through the Central Counseling Cell which is headed by a Faculty Coordinator. If the mentoring provided by batch mentor is inadequate or any special mentoring such as psychological and health related issues is required then students go to central counseling cell. It is an observation that over a period of time only handful of cases is reported to the central counseling cell. The Coordinator carries out the mentoring and counseling activities with the help of appointed expert Counselors who are available on the campus every week. If required, in certain cases, counseling and mentoring is also provided by an expert M.D. (Psychiatry). In all, mentoring and counseling is provided to the students to help them cope up with exam related stress, anxiety, various academic and behavioral issues, etc. Individual counseling sessions are conducted for needy students by expert counselors, the information of which is kept confidential. The cell also organizes various training sessions by inviting expert counselors and resource persons.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2469	144	1:17

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
122	150	0	1	30

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. S.A. Halkude	Principal	Award for Best Principal by ISTE New Delhi
2018	Mr. V.H. Kondekar	Assistant Professor	SPOC, Topmost ranked NPTEL Local chapter in Maharashtra state.
2018	Mr. P. S. R. Patnaik	Assistant Professor	Evaluator (Smart India Hackathon 2019), MHRD, GoI
2018	Dr. S.R. Gengaje	Professor	Best Teacher" Award by Solapur University, Solapur (SUS)
2018	Mr. N.S. Katikar	Assistant Professor	Member - ISTE-National Executive Council
2018	Mr.S.K. Kulkarni	Assistant Professor	First prize in AVISHKAR-18 University Project Competition in Civil Engineering organized by Punyashlok Ahilyadevi Holkar Solapur University Solapur
2019	Dr. Lobo L.M.R.J.	Associate Professor	Best paper Presentation Award for presenting a paper, "Detecting Phishing Websites using Machine Learning", at National conference on Technical Revolution (NCTR)

			2019 at Pune, India
2019	Mrs. S. M. Dol	Assistant Professor	Topper 1 for the NPTEL 12-week course on "Programming in Java" with 98 - Gold and Elite Certificate from January 28, 2019 to April 19, 2019
2018	Dr. S.S. Gajbhar	Assistant Professor	Stood among the top 1 in the 12 week NPTEL Online Course "Programming in Java"
2018	Dr. P. R. Kulkarni	Associate Professor	Best Teacher Award by Lions Club, Solapur
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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
Mtech	Computer Science Engineering	All	24/05/2019	14/08/2019
Mtech	Mechanical Engineering	All	24/05/2019	29/08/2019
Mtech	Electronics Engineering	All	24/05/2019	03/08/2019
Mtech	Civil Engineering	All	24/05/2019	29/08/2019
BE	Mechanical Engineering	All	11/05/2019	09/08/2019
BE	Electronics Engineering	All	11/05/2018	21/06/2019
BE	Electronics and Telecommunication	All	11/05/2019	21/06/2019
BE	Information Technology	All	11/05/2018	21/06/2019
BE	Computer Science Engineering	All	11/05/2019	21/06/2019
BE	Civil Engineering	All	11/05/2019	21/06/2019

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

Institute has adopted reforms laid by university for internal evaluation. Looking at emerging importance of continuous assessment, Institute has adopted CBCS system, in which, theory subjects weightage for internal assessment is 30 and whereas 70 for ESE. Laboratory courses are assessed through Internal Continuous Assessment (ICA) and ESE. Therefore average weightage for Continuous Internal Evaluation (CIE) is @50. Institute has adapted Outcome based education. Hence, assessment is aligned with Program Outcomes (POs) Program Specific Outcomes (PSOs) which are attained through course outcomes. Assessment questions are based on different levels of Bloom's Taxonomy. The weightage of 20 is given to objective assessment so as to prepare students for competitive examinations. ISE ICA is assessed through multiple tools like tests, viva-voce, group discussions, case studies, presentations, design sheet submission, e-submissions etc. Other assessment modes adopted are Google Forms, Google Classroom, Virtual Labs, Virtual Programming Lab (VPL) on MOODLE and Learner Centric MOOC (LCM). LCM. Assessment of LCM is done through MOODLE with due weightage in ICA through Learning Dialogues (LeDs), Learning by Doing (LbDs) and assignments. On successful completion of vocational training/internship, students are assessed by his faculty advisor. Institute is keen about inculcating the habit of self-learning amongst students and hence due weightages are for online certification courses through NPTEL, Spoken tutorial and other MOOCs. The institute provides a mechanism for redressal of the grievances, if any, for CIE. Institute's grievance addressal is at department level and redressal at institute level.

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

Every year an academic calendar is prepared at institute level to plan the curricular, co-curricular and extracurricular activities and published before the commencement of the semester. All components related to different stakeholders like alumni meet, parents meet, industry interactions etc. are considered while preparing academic calendar. Head of the department along with various departmental activity in-charges prepare academic calendar for the department in sync with institute academic calendar. Academic calendar includes schedule for start and end of the class room teaching as well as laboratory work. Schedule regarding various components related to In Semester Evaluation (ISE) and Internal Continuous Assessment (ICA) forms integral part of departmental academic calendar which includes internal tests, seminars, presentation, internal viva voce and submission. Other extra and co curricular activities like training for campus placement, various competitions, parent meet, industrial tours and visits, lectures by industry experts, programs by student's associations also finds place in academic calendar. Mostly, all activities related to assessment and examinations are strictly carried as per the schedule indicated in academic calendar. More than 90 of the other activities adhere to academic calendar. Slippage if any along with the reason is included in the 'Executed Academic Calendar which is prepared after completion of the semester. The reasons for slippage are analyzed and are seed for improving academic calendar of the next cycle.

2.6 – Student Performance and Learning Outcomes

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

<https://www.witsolapur.org/obe.php>

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
CV	BE	Civil Engineering	81	77	95.06
CSE	BE	Computer Science Engineering	144	143	99.3
IT	BE	Information Technology	81	81	100
ETC	BE	Electronics and Telecommunication	157	157	100
ELN	BE	Electronics Engineering	76	73	96.05
MECH	BE	Mechanical Engineering	157	155	98.71
CV	Mtech	Civil Structural Engineering	3	3	100
CSE	Mtech	Computer Sci. & engineering	1	1	100
ELN	Mtech	Electronics Engineering	4	4	100
MECH	Mtech	Mechanical Design engineering	2	2	100

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2.7 – Student Satisfaction Survey

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

<https://witsolapur.org/pdfs/student-satisfaction-survey-2020.pdf>

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	1095	All India Council for Technical education (AICTE)	2352941	0.35
Major Projects	1095	All India Council for Technical	2098000	1.05

		education (AICTE)		
Any Other (Specify)	730	All India Council for Technical education (AICTE)	1020952	2.04
Major Projects	1095	All India Council for Technical education (AICTE)	2505000	0
Industry sponsored Projects	365	Gubbi Civil Engineer	35750	0.36
Industry sponsored Projects	240	Renuka Engineering works	1000	1
Industry sponsored Projects	272	NTPC Ltd., Solapur	14000	0.14
Industry sponsored Projects	171	Ankur Enterprises	12000	0.12
Industry sponsored Projects	169	Trilocode Technology	13500	0.14
Industry sponsored Projects	243	Sanman Capacitors	12000	0.12
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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
ET-101x-SKVIZ101x-Fundamentals of 3D Visualization	Remote Centre, Walchand Institute of Technology, Solapur	29/08/2018
FDP201x Pedagogy for Online and Blended Teaching-Learning Process	Remote Centre, Walchand Institute of Technology, Solapur	13/10/2018
Python for Teachers and Research Scholar	Remote Centre, Walchand Institute of Technology, Solapur	22/06/2019
Creating your own Video Resources and Course Implementation on MOODLE	Walchand Institute of Technology, Solapur	11/02/2019
National Level Workshop On CMOS Logic Design" sponsored by PAH Solapur	Electronics and Telecommunication Engineering	27/01/2019

University, Solapur		
Workshop on "Investigation on Flexural behavior of Conventional R.C. Beams with and without Carbon fiber reinforced polymer (CFRP) wrapping, using Imetrum Video Gauge Measurement System"	Civil Engineering in collaboration with Indian Society of Structural Engineers, Solapur local centre	13/03/2019
Seminar on "Precast Structures for Deihi Development Authority" by Er. Rushikesh Gore , B.G.Shirke Group, New Delhi	Civil Engineering	19/03/2019
Foundation Program in ICT for Education- Autumn 2018	Remote Centre,Walchand Institute of Technology,Solapur	13/09/2018
Spoken Tutorial Training Program for Linux	Remote Centre,Walchand Institute of Technology,Solapur	10/04/2019
Hands-on Workshop on "Developing Microcontroller Based IOT Applications"	Electronics and Telecommunication Engineering	16/03/2019
Seminar on "Recent trends in VLSI design for FPGA, ASICS"	Electronics Engineering	02/01/2019
Seminar on "How Construction technology is changing India's construction sector" by Rajesh Joshi, Assistant Professor,School of Construction,RICS School of Build Environment , Amity University,Mumbai.	Civil Engineering	10/12/2018
Seminar on "Different Pavement Materials" by Prof. Lokesh Gupta, Assistant Professor , Padampat Singhania University,Udaipur.	Civil Engineering	18/03/2019
Workshop on "AWS" for Societe Generale Asia Pacific Inc. By P.S.R.Patnaik	Computer Science and Engineering	11/02/2019
Workshop on "Azure Development" for First American Corporation (India) Pvt. Ltd. By P.S.R.Patnaik	Computer Science and Engineering	19/07/2018

Workshop on "PHP" by Worldvision Solutions, Solapur	Computer Science and Engineering, Information Technology	17/06/2019
Seminar on Recent trends in robotic process automation"	Electronics Engineering	14/09/2018
Workshop on Distance Ready Engineers	Mechanical Engineering	12/03/2019
Workshop on "C Programming"	Electronics Engineering	03/01/2019
Peer Enablement Session on Agile Software Development	Information Technology	25/07/2018
ET702x: Designing Learner-Centric MOOC- an online course	Remote Centre,Walchand Institute of Technology,Solapur	02/08/2018
FDP301x Mentoring Educators in Educational Technology	Remote Centre,Walchand Institute of Technology,Solapur	17/05/2018
One day Scilab Workshop by IIT Bombay	Remote Centre,Walchand Institute of Technology,Solapur	05/04/2019
Smart Classrooms: Technology-Aids for Effective Teaching Learning	Remote Centre,Walchand Institute of Technology,Solapur	05/03/2019
MOODLE Learning Management System	Remote Centre,Walchand Institute of Technology,Solapur	15/03/2019
Koha and Library Automation	Remote Centre,Walchand Institute of Technology,Solapur	12/10/2018
Koha and Library Automation	Remote Centre,Walchand Institute of Technology,Solapur	09/03/2019
Pedagogy for Online and Blended Teaching-Learning Process - Autumn 2018	Remote Centre,Walchand Institute of Technology,Solapur	25/10/2018
FDP101x Foundation Program in ICT for Education	Remote Centre,Walchand Institute of Technology,Solapur	13/09/2018
Seminar on Employment Enhancement Skills for Software Engineers by ADJ INFOTECH Pvt. Ltd., Solapur.	Computer Science and Engineering, Information Technology	13/09/2018
Workshop on "AWS Development" for Saama Technologies (India) Pvt. Ltd. By P.S.R.Patnaik	Computer Science and Engineering	15/11/2018

Workshop on "Unified Modeling Language (UML)"	Information Technology	16/03/2019
Foundation Program in IWorkshop on i-GETIT Software CT for Education- Autumn 2018	Mechanical Engineering	18/03/2019
Workshop on "Raspberry PI"	Electronics Engineering	01/02/2019

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
High Concrete strength to weight ratio competition	Prabhupad Arkal, Amitkumar Bande, Rishikesh Sathe, Shivani Doijode	IIT Bombay	17/03/2019	Student
Securing Authenticity of Farmer inputs using Blockchain	Shreyash Awate, Nilesh Keshavdas, Shridhar Daga, Varad Rathod, Ankit Doshi, Prachi Mane	Smart India Hackathon (SIH-2019), MHRD, Govt. of India	03/03/2019	Student
App Based Valuation Report of Mobile Assets	Rahedi Jaya Nanakram, Ghodke Kaveri Sanjay, Khandekar Divya Dattatraya, Irabatti Vinayak Shrinivas, Sindgi Shantesh Prakash, Chillal Mahesh Shivabasappa	Smart India Hackathon (SIH-2019), MHRD, Govt. of India	03/03/2019	Student
Design of An Automated Wheel Chair	Vaibhav Madhekar	Start-up India, The Government of Maharashtra	08/04/2019	Student
Virtual Reality (VR) Shopping	Asmita Desai, Dhanraj Chippa	Tata Consultancy Services, Pune	27/03/2019	Student
Shear strength of Fiber reinforced concrete Deep Beams	Mr. S.K.Kulkarni	Avishkar Competition, PAH Solapur University , Solapur	24/12/2018	Teacher
Knowledge management for rural industries using cloud	Mr. N.S. Katikar	Avishkar Competition, PAH Solapur University , Solapur	24/12/2018	Teacher

computing				
A prototype for Region based image retrieval	Mr. V. A. Bingi	Avishkar Competition, PAH Solapur University , Solapur	24/12/2018	Research Scholar
Design of IOT Solution for Quality Tracker System	Anagha Pawar, Utkarsha Mehta	Intech Olympiad, COE, Pune	18/02/2019	Student
Study of Different methods to generate biogas and its feasibility for business application.	Pooja Jambhale, Shrutika Danole	Intech Olympiad, COE, Pune	18/02/2019	Student
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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
No Data Entered/Not Applicable !!!					
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	10

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

Name of the Department	Number of PhD's Awarded
Electronics Engineering	1
Mechanical Engineering	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	General Engineering	2	3.14
International	Civil Engineering	6	5.31
International	Electronics Engineering	1	7.21
International	Information Technology	3	4.92
International	Mechanical Engineering	5	8.87
International	Computer Science and Engineering	1	5.2

International	Electronics and Telecommunication Engineering	6	6.09
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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
Information Technology	9
Civil Engineering	5
Computer Science and Engineering	5
General Engineering	2
Electronics Engineering	2
Mechanical Engineering	2
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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
Business intelligence tools - content generation using moodle for self learning as an elective module	P.S.Yalagi, D.P.Gandhmal, R.K. Dixit	Journal of Engineering Education Transformations	2018	1	Walchand Institute of Technology, Solapur	1
The whirling speed of the induction motors and unbalanced magnetic pull (Ump)-A review	B.B. Deshmukh et al.	International Journal of Mechanical and Production Engineering Research and Development	2019	0	Walchand Institute of Technology, Solapur	0
Design and fabrication of automated pneumatic shearing machine to cut	P.G.Chitte, S.S. Rathod	International Journal of Mechanical and Production Engineering Research	2018	1	Walchand Institute of Technology, Solapur	1

aluminium sheet		and Development				
Novel adaptive learning scheme for GMM	S.R. Gengaje et al.	Proceedings of the 2017 International Conference on Wireless Communications, Signal Processing and Networking, WISPNET 2017	2018	1	Walchand Institute of Technology, Solapur	1
Systematic analysis and review of stock market prediction techniques	D.P. Gandhmal, et al.	Computer Science Review	2019	1	Vellore Institute of Technology, Vellore	1
Reflective and formative constructs in the implementation of sustainable manufacturing with SMEET framework	K.G.Valase et al.	IEEE International Conference on Industrial Engineering and Engineering Management	2018	1	Veermata Jijabai Technological Institute (VJTI), Mumbai University, Mumbai	1
Mediation analysis of multiple constructs in the relationship between manufacturing and technology and environmental constructs in structural equation model for sustainable manufacturing	K.G.Valase et al.	International Journal of Advanced Manufacturing Technology	2018	1	Veermata Jijabai Technological Institute (VJTI), Mumbai University, Mumbai	1

Animated flowchart with example followed by think-pair-share activity for teaching algorithms of engineering courses	S.M. Dol	Proceedings - IEEE 9th International Conference on Technology for Education, T4E 2018	2018	1	Walchand Institute of Technology, Solapur	1
Gamification: An instructional strategy to engage learner	R.K. Dixit, M.A. Nirgude, P.S.Yalagi	Proceedings - IEEE 9th International Conference on Technology for Education, T4E 2018	2018	1	Walchand Institute of Technology, Solapur	1
Improving critical thinking skill of students using aRPIGDs: An effective and alternative method to role play	S.M. Dol, Dr. S.A. Halkude	Journal of Engineering Education Transformations	2018	0	Walchand Institute of Technology, Solapur	0
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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
Animated flowchart with example followed by think-pair-share activity for teaching algorithms of engineering	S.M. Dol	Proceedings - IEEE 9th International Conference on Technology for Education, T4E 2018	2018	3	1	Walchand Institute of Technology, Solapur

ring courses						
Gamification: An instructional strategy to engage learner	Dixit, R.K., Nirgude, M.A., Yalagi, P.S.	Proceedings - IEEE 9th International Conference on Technology for Education, T4E 2018	2018	1	1	Walchand Institute of Technology, Solapur
Mediation analysis of multiple constructs in the relationship between manufacturing and technology and environmental constructs in structural equation model for sustainable manufacturing	K.G. Valase et al.	International Journal of Advanced Manufacturing Technology	2018	1	1	Veermata Jijabai Technological Institute (VJTI), Mumbai University, Mumbai
Systematic analysis and review of stock market prediction techniques	D.P. Gandhmal et al.	Computer Science Review	2019	1	1	Vellore Institute of Technology, Vellore
Design and fabrication of automated pneumatic shearing machine to cut aluminium sheet	P.G. Chitte, S. S. Rathod et al.	International Journal of Mechanical and Production Engineering Research and Development	2018	1	1	Walchand Institute of Technology, Solapur
Designing FDP for active learning-think-pair-share and	S.M. Dol et al.	Proceedings - IEEE 9th International Conference on	2018	3	0	Walchand Institute of Technology, Solapur

peer instructions using online learning management system MOODLE		Technology for Education, T4E 2018				
Use of Basic SQL-The Online Beginners Guide site to give hands on experience of SQL to students	S.M. Dol, D.P. Gandhmal	Proceedings - IEEE 9th International Conference on Technology for Education, T4E 2018	2018	3	0	Walchand Institute of Technology, Solapur
Efficient four layer approach for content based image retrieval	S.R.Gengaje et al.	Journal of Advanced Research in Dynamical and Control Systems	2019	3	0	Walchand Institute of Technology, Solapur
Multi-object detection using modified GMM-based background subtraction technique	S.R.Gengaje et al.	Lecture Notes in Computational Vision and Biomechanics	2019	3	0	Walchand Institute of Technology, Solapur
Acquiring Best Rules that Represent Datasets: AICC 2018	LMRJ Lobo et al.	First International Conference on Artificial Intelligence and Cognitive Computing	2019	3	0	Walchand Institute of Technology, Solapur

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

Number of Faculty	International	National	State	Local
Resource persons	0	3	0	6
Presented papers	11	4	0	0
Attended/Semina	0	123	0	0

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
Yoga on International Yoga Day	Art of living yoga teacher	4	120
Swachh Bharat Summer Internship 2018	Govt. Of India	2	10
Tree plantation drive	DTE, Mumbai	4	120
Swachhta awareness camp at village Kandalgaon	Kandalgaon Grampanchayat, Solapur	8	160
"Green College Clean College" PPT competition	Kirloskar Vasundhara (Kirloskar Industries, Solapur)	2	20
Blood Donation Camp on 06/10/201	Four Blood Banks namely -Civil blood bank, Damani blood bank, Hedgewar blood bank, Ashwini Blood Bank and NSS Unit	8	555
Blood Donation Camp on 09/03/2019	Four Blood Banks namely -Civil blood bank, Damani blood bank, Hedgewar blood bank, Ashwini Blood Bank and NSS unit	8	558
Expert talk on Responsibilities Commitment	Kirloskar Ferrous Industry Limited, Solapur	24	243
Expert talk on English for self respect	Hirachand Nemachand College of Commerce, Solapur.	27	504
Expert talk on`Mahatma Gandhi and Modern Technology`	Sevagram Collective, Aurangabad	4	350

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
Elocution (English) Event	3rd Prize	PAH Solapur University, Solapur	1
Chess Competition	Winner	PAH Solapur University, Solapur	6
Yoga Competition	Winner	PAH Solapur University, Solapur	2
Swachh Bharat Summer Internship 2018	Recognition	Govt. of India	10
Basket-Ball (Boys)	Runner up	PAH Solapur University, Solapur	12
Marathi Section-Prose College Magazine (WITNESS-2019)	1st Prize	PAH Solapur University, Solapur	5
"Green College Clean College" PPT competition	2nd Prize	Kirloskar Vasundhara (Kirloskar Industries, Solapur)	20
Conservation of Garbage to useful product	3rd Prize	Mayor Innovation Award, Municipal Corporation Nagpur	1
Tabala Event	1st Prize	Youth Festival, PAH Solapur University, Solapur	1
Swachh Bharat Summer Internship 2018	Recognition	Govt. of India	10

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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
Swachh Bharat	Govt. Of India	Swachh Bharat Summer Internship 2018	2	10
Swachh Bharat	Kirloskar Vasundhara (Kirloskar Industries, Solapur)	"Green College Clean College" PPT competition	2	20
Swachh Bharat	Kandalgaon Grampanchayat Govt. Of India	Swachhta awareness camp	8	160
Swachh Bharat	Sevagram Collective,	Expert talk on Mahatma	4	350

	Aurangabad	Gandhi Modern Technology`		
Blood Donation	Four Blood banks namely Civil Blood Bank, Damani Blood Bank, Hedgewar Blood Bank, Ashwini Blood Bank, Solapur	Blood Donation Camp on 06/10/2018	8	555
Blood Donation	Four Blood banks namely Civil Blood Bank, Damani Blood Bank, Hedgewar Blood Bank, Ashwini Blood Bank, Solapur	Blood Donation Camp on 09/03/2019	8	558
Tree plantation drive	DTE, Mumbai	Tree plantation	4	120
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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
Project entitled "Variation in flexural strength of steel section with and without carbon fiber reinforced polymer wrapping"	Students: Suryakant Gunde, Pratik Gunge , Akshay Jadhav , Tushar Jain , Akash Madiwale, Vrushabh Mandavkar, Rahul Matade , Vrushabh Patil, Sahil Sanghavi , Amar Dadibude	Er. Siddheshwar Jamma, Gubbi Enterprises, Thane	225
Project entitled "Design and Analysis of Gearbox for an Airlock Machine"	Students: Rushabh Sancheti, Ketan ,Deshpande, Rohit salgarkar, Shrutik Dhopade, Satyajet Tiwari	Laxmi Hydraulics Pvt. Ltd. Solapur	180
Project entitled "Experimental study on enhancement in properties of concrete due to addition of steel fibers, metakaoline and marble dust"	Students: Supreeth Mutkiri, Yash Jain, Jay Chordiya, Ayush Jain, Amit Patil, Bhaskar Ganji, Abhay Bafna, Mayur Hable, Shubham Thaware	Kasturi metals, Amravati	225
Project entitled "Artificial Solar Oxygen Tree"	Students: Dodyal Manjali Laxman, More Shraddha	NTPC Ltd. Solapur	180

	Dattatray, RatnaparkheMayuri		
Project entitled "Automatic Ration Distributed System"	Students: Shashikala Sangaliker, Pooja Mote, Vinal Bhandare	Solapur Municipal Cooperation , Solapur (Co- operator Area no.23-C)	210
Project entitled "Digital Marketing social media handling Intern"	Student: Kaveri Ghodke	Gift A Life Agricare Private Limited, Noida.	210
Project entitled "Android Based Live Application: Chat App"	Students: Shantesh Sindgi, Mahesh Chillal and Akshata Palsule	RB Tech Services, Ahmednagar	180
Project entitled "Website Development for Pitroda Furniture"	Student: Naman Jain	Burosys Furniture Pvt Ltd, Mumbai	60
Project entitled "To Do- Web Application for Organization"	Student: Arpit Jain	ABC Learn Technologies, Hyderabad	180
Project entitled "NLP(Natural language Processing)Based Chat Bot"	Students: Satish Kumar and Arpit Jain	Krudh Solutions For Life Private Limited, Hyderabad.	60
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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
Internship	Vocational Training	Flash Electronics (india)Pvt.Ltd.,A-4,MIDC , Chakan Industrial Area, Mahalunge, Chakan, Pune-410501. Phone-912135 666000	27/05/2019	29/06/2019	1 Student
Training	Foundation Program 5.0	Infosys Limited, Pune Campus	04/02/2019	27/03/2019	49 Students

		Connect, Education Training Assessment, Infosys Limited. Mobile images: 91 85549 92656 Direct : 91-20 337 12146 http:// /campusconne ct.infosy			
Internship	Vocational Training	Intershala	02/06/2018	13/07/2018	1 Student
Internship	Vocational Training	CRESOLVE TECH. PVT. LTD. Manish Nagar Nagpur -440015	03/06/2018	03/07/2018	1 Student
Internship	Vocational Training	Flash Electronics (india)Pvt.L td. A-4,MIDC, Chakan Industrial Area, Mahalunge, Chakan, Pune-410501. Phone-912135 666000	10/06/2019	30/06/2019	1 Student
Internship	Vocational Training	ORISENC Technologies Pvt. Ltd, 5 ,BaluNagar,m ogappair east, Chennai	13/12/2018	24/12/2018	2 Students
Field Visit	Industrial Visit	Maharashtra State Electricity Trans Co.Ltd. EHV CCCM Sub Dn.No.1 M.S. E.T.C.L.Sola pur (0217) 2319624	25/01/2019	25/01/2019	2 Faculties, 72 students
Field Visit	Industrial Visit	B.B.Knitting Works Pvt. Ltd. ,MIDC, Akkalkot Road,	29/09/2018	29/09/2018	2 Faculties, 142 Students

		Solapur			
Field Visit	Industrial Visit	Atharva Plastic Industries At Post: Jategaon Shikrapur Chakan Road, Taluka: Shirur Dist: Pune, Maharashtra India	08/10/2018	08/10/2018	2 Faculties, 74 Students
On-the-Job-training	Campus Connect	Infosys Limited, Pune Campus Connect, Education Training Assessment, Infosys Limited. Mobile images: 91 85549 92656, Direct : 91-20 337 12146	01/07/2018	30/06/2019	6 Faculties

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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
iPing Data Labs Pvt. Ltd.	24/05/2019	Exchange of Technical Know-how	41
HCL Technologies Ltd.	01/07/2018	Providing Training to UG PG Students, Research work for PG students, Mini Projects	32
ARM University Alliance Programme	11/09/2018	Internet of Things- software and hardware support for development of IoT based projects	56
GATE Tutor Pvt. Ltd	28/11/2018	GATE Exam Preparation Placement activity	750
Kasturi Metals Composites	13/01/2019	Research and Development in Civil Engineering	8

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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
41.63	25.11

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Classrooms with Wi-Fi OR LAN	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
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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
Libman	Fully	2	2012

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	54297	16606342	103	17920	54400	16624262
Reference Books	4077	2704352	16	106926	4093	2811278
Journals	55	151469	22	98067	77	249536
e-Journals	508	1489806	34	165752	542	1655558
e-Books	10	0	1418	0	1428	0
CD & Video	1403	0	1130	0	2533	0
Digital Database	4	0	0	0	4	0
Library Automation	1	175000	0	0	1	175000
Weeding (hard &	0	0	2624	231463	2624	231463

soft)

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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
Mr. V.H.Kondekar	PIC Microcontroller	Institute LMS	04/03/2019
Dr.S.K.Sarsamkar	Polymer	Institute LMS	20/08/2018
Dr. P. R. Kulkarni	Recording Techniques and work sampling	Institute LMS	01/03/2019
Dr. B. B. Deshmukh	Gear Design	Institute LMS	01/03/2019
Mrs.S.M.Dol	Syntax Analysis	Institute LMS	21/01/2019
Dr. S.S.Patil	Analysis and Design of T Beam.	Institute LMS	03/10/2018
Dr.Mrs P.S.Yalagi	Transistion diagram and code optimization	Institute LMS	25/01/2019
Mrs. M. A. Nirgude	Greedy method	Institute LMS	10/09/2018
Dr S R Gengaje	Data, information and Database management	Institute LMS	17/09/2018
Dr.Miss. A. V. Thalange	Binary Digital Modulation Techniques	Institute LMS	04/09/2018

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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	728	26	600	6	1	25	683	83	0
Added	72	0	72	0	1	0	72	47	0
Total	800	26	672	6	2	25	755	130	0

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

200 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Recording studio which includes Sony HD Camera, Tripod, Mike (Wireless/Wired), Mixer	http://witsolapur.org/plc/econtent-development-center.php

Learning Management System Moodle for e-course development.	http://103.71.64.254/
WIT Solapur - Professional Learning Community YouTube Channel	https://www.youtube.com/channel/UCb9okJF6NGPDUGgAOxu3TcA

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
554.65	456.85	157.2	83.11

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)

The college ensures optimal allocation and utilization of the available financial resources for maintenance and upkeep of different facilities by holding regular meetings of various committees which involves all the stakeholders from teacher in charge up to governing body, constituted for this purpose therefore the budget reflected the factual requirement of department and department wise budget allocation is done. This is the reason of highest utilization of allocated budget.

1. Laboratory:

- The Laboratories are regularly maintained by the faculty In-charge of lab and assisted by laboratory technical staff.
- Records of equipment are maintained in stock registers as per the process.
- Preventive maintenance/repairs is carried in-house and record is documented
- Equipments / appliances are maintained properly and serviced periodically.
- Do's and Don'ts for the stakeholders are displayed in Laboratory.
- Institute follows defined Upgradation/Write-off Policy of equipments.

2. Library: Library committee comprising of departmental representative and library staff is looking after overall functioning of the library.

a. The requirement and list of books is taken from all departments. Additionally exhibition of various publishers is arranged to know new titles. The finalized list of required books goes for procurement.

b. Suggestion box is available at prominent location. This continuous feedback helps a lot in introducing new ideas/schemes regarding library enrichment.

c. Regular issue and return of the books is assured by library software.

d. Other issues such as weeding out of old titles, schedule of issue/ return of books etc. are chalked out / resolved by the library committee.

e. The maintenance of the reading room and stock verification of library books is done regularly by library staff.

3. Sports: Maintenance of sports equipment is supervised by college sports in-charge. During 2018-19 college participated in different inter-collegiate championships and won various titles. The specialized training is provided. All sports fields are regularly maintained.

4. Computers Networking

- Each Department has adequate number of PCs which are utilized for lab sessions, projects along with browsing facility and also adequate computational facility and application software are made available to Office, library, digital library and language lab.
- All the computers are connected through Structured cabling wi-fi zones are created .
- All necessary System software, Application Software, Sophos firewall, e-scan antivirus software etc, are installed and maintained by Laboratory assistant.
- Regular maintenance work/repair work of computer systems, peripherals networking switches is carried through Institute level maintenance cell. In case of major break down, if any, external agencies are deployed.
- Institute follows defined Upgradation/Write-off Policy for PCs Peripherals.

5. Classrooms: The College has various committees for maintenance and upkeep of infrastructure.

6. Additionally:

a. Regular cleaning of water

tanks, water coolers, water purifiers, proper garbage disposal, pest control, landscaping and maintenance of lawns is done by institute employees and regularly monitored by authorities b. Up keeping of all facilities and cleanliness of in boys and girls hostel is monitored by respective rectors c. Maintenance of furniture and plumbing work is outsourced.

<http://witsolapur.org/pdfs/maintenance-policy.pdf>

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	Shri.Bhausahab Gandhi Pratishthan , Solapur	22	189000
Financial Support from Other Sources			
a) National	Scholarship_Freeshi p	1779	103749481
b) International	00	0	0

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft skill development	25/09/2018	344	Soft Skill Development Cell (SSDC) of the Institute
Soft skill development	11/03/2019	186	Ms. Prachi Sakhare Reliance Retail, Pune and Institute Faculty
Soft skill development	03/08/2018	512	Dr. S.V.Koti , Hirachand Nemachand College of Commerce, Solapur. and Institute Faculty
Remedial coaching	18/02/2019	211	Institute Faculty
Language Lab	01/02/2019	512	Institute Faculty
Bridge courses	03/01/2018	431	1. CSI chapter and World vision Solutions, Solapur, 2. Candor Minds, Pune, 3. Er. Suresh Sodal , Retired secretary Maharashtra water resources regulatory

			authority, 4. Mr. Rajeev Tapsakri, Chief People Officer at PCEI , Hyderabad, 5. Institute Faculty
Yoga and Meditation	21/06/2018	120	Yoga club of the Institute
Yoga and Meditation	06/08/2018	405	Yoga club of the Institute
Personal Counselling	14/09/2018	7	Personal Counselling Cell of the Institute
Mentoring	15/07/2018	2469	Institute Faculty
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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
2018	Guidance for competitive examinations	298	0	28	0
2018	Career counselling offered by the institution	0	563	0	410
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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
17	17	30

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
Infosys, Tata Consultancy Services, Persistent, Tata Technol	491	333	E-infochip, Amazon, Bibox, Syntel, Tata Consulting Engineers,	153	77

ogies, Automata Systems, L T Infotech, Wipro Ltd., Mphasis, Enzigma, Webtech Developers, Jaro Education, Zamil Air Co nditioners, Epic Research, IASYS, Enhanced Software Solution			Shriram Transport Finance, Dhoot Transm ission, Institute of Satellite Telecom Pvt.Ltd, Sehgal Wheels Pvt. Ltd. (Tata Motors Sales Service Station), Pinclick, Tech Mahindra Limited		
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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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	1	B.E. (Electr onics)	Electronics Engineering	RMIT University, Australia	MS (Electronics Engineering)
2018	1	B.E.(Compute r Science Engineering)	Computer Science Engineering	Royal Melbourne Institute of Technology, Melbourne , Australia	MS (Cyber Security)
2018	1	B.E.(Civil)	Civil Engineering Department	NICMAR , Hyderabad	PGP (Advance Construction Management)
2018	1	B.E. (Electronics and Telecomm unication Engineering)	Electronics Engineering	Indraprastha Institute of Information Technology, Delhi	M. Tech (ECE)
2018	1	B.E.(Civil)	Civil Engineering Department	Amity University	MBA (Constru ction Management)
2018	1	B.E.(Civil)	Civil Engineering Department	G. H. Raisonni college of engineering, Nagpur	M.Tech (Tran sportation Engineering)
2018	2	B.E.(Compute r Science & Engineering	Computer Science & Engineering	University of southern California	MS (Computer Science)

2018	1	B.E. (Mechanical)	Mechanical Engineering	Vishwakarma Institute of Technology, Pune	M. Tech (Industrial Engineering)
2018	1	B.E.(Civil)	Civil Engineering Department	MIT, Pune	M.Tech (Tunnel Engineering)
2018	1	B.E.(Informa tion Technology)	Information Technology	Walchand Institute of Technology, Solapur	M.Tech (Computer science and 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	16
CAT	2
GRE	4
TOFEL	1
Civil Services	3
Any Other	9
View File	

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

Activity	Level	Number of Participants
Cultural Event Atharva 2k19	Institute Level	95
Teachers Day Celebration	Institute Level	550
Ganesh Utsav 2018	Institute Level	350
Quiz Competition in Engineers Week 2018	Institute Level	202
General Aptitude Test Competition in Engineers Week 2018	Institute Level	816
Programming Contest in Engineers Week 2018	Institute Level	868
Essay Competition (In 3 Languages) in Engineers Week 2018	Institute Level	76
Pot Painting Competition in Art Exhibhition 2k19	Institute Level	37
Mehendi Competition in Art Exhibhition 2k19	Institute Level	37
Card Making Competition in Art Exhibhition 2k19	Institute Level	34
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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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Winner at University (Zonal) level in Table Tennis (Male)	National	1	0	17039541, 18051015, 16038082, 15077801	Shubham Havale, Amit Loni, Mrugank Kothadiya, Yash Hatte
2018	Winner at University (Zonal) level in Fencing (W)	National	1	0	15037538, 17059037	Sakshi Singhal, Jajje Rajeshwari
2018	Second Runner up at University (Zonal) level in Swimming	National	1	0	17019330, 18011030	Harsh Bidri, Samved Burbure
2018	Runner up at University (Zonal) level in Basket ball (Male)	National	1	0	15017552, 17059046, 16018560, 16078159, 16018341	Akshay Kulkarni, Anakala Dattateja Reddy, Abhishek Denginal, Aniket Bandgar, Juned Shaikh,
2018	Second Runner up at University (Zonal) level in Basket ball (Women)	National	1	0	16028130, 15057729, 16048182, 18070981, 18011082	Saumya Katta, Shruti Nalawade, Vaishnavi Pawar, Kathyayani Vidap, Manisha Macharla
2018	Winner at University (Zonal) level in Yoga (Male)	National	1	0	15017461	Paras Warwante
2018	1st in	National	0	1	16038459	Sanmit

	Solo Instrument Play (Tabla) at Youth Festival, Solapur University, Solapur.					Randive
2018	3rd in Elocution (English) at Youth Festival, Solapur University.	National	0	1	16018235	Dipika Phatate
2018	Winner at University (Zonal) level in Chess (Male)	National	1	0	15017451, 15197576, 15187587, 15057657, 16038133	Pratik Gugliya, Gourishankar Kumbhar, Raunak Jain, Ankush Vitalkar, Naitik Doshi
2018	Winner at University (Zonal) level in Archery	National	1	0	18011002	Nikhil Awane
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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)

1. Student Council: The institute has an active student council which represents all students of the institute

1.1 Selection: The Institute has an elected student council consisting of two ladies representatives, a sports secretary, a cultural secretary and a National Service Scheme (NSS) secretary. A magazine secretary is nominated at institute level. A committee consisting of head of the institution, heads of various departments and senior faculty members conduct interview and select the students based on their academics, co-ordination skills, their participation and leadership in various activities and communication skills.

1.2 Activities by student council: Below are the regular activities initiated / conducted by student council

1.2.1 Sports secretary: The sports secretary organizes and coordinates intercollegiate sports tournaments.

1.2.2 Cultural secretary: The cultural secretary along with the help of faculty coordinator organizes various cultural activities competitions such as 'Atharva', Teachers day and Ganesh Festival. Art Exhibition is conducted every year where students get a platform to showcase their talents in various cultural events. Students participate enthusiastically in district level competitions such as 'Jallosh' and 'Youth festival'.

1.2.3 NSS secretary: The NSS secretary along with departmental coordinators conducts various activities of social relevance. Blood donation is arranged twice in a year with record of 1000 blood units every year

1.2.4 Magazine secretary: The magazine team under the leadership of magazine secretary publishes a college magazine 'WITness' and

various departmental newsletters. The processes like collecting the material, editing, designing and publishing are carried out by students. 2. Role of students in Academic and Administrative activities: Students are involved in planning and provide feedback regularly related to teaching-learning method, other academic affair and infrastructure etc. Students are also part of Internal Quality Assurance Cell (IQAC) and provide feedback on various student issues and contribute towards improvement in the institute's working. Students are also a part of following bodies: 2.1 Professional student bodies: Students have representation in ISTE student's chapter, CSI student's chapter and IEI.

Various Departmental Associations are run by the students. A national level technical symposium 'WITCHAR' is arranged every year in the month of March as a calendar activity, where technical events are organized by faculty in charge and student coordinators. The student volunteers help Training Placement Officer (TPO) to organize various placement activities. Every department has one representative in TPO committee who help to conduct online aptitude tests on Moodle as part of training and placement activity. The institute has student committee for Entrepreneurship Development Cell (EDC) and Soft Skill Development Cell (SSDC) which helps to conduct various activities under the guidance of faculty in charge. Computer Science Engg and Information Technology departments conduct 'WITech', an event consisting of various technical and non technical activities. Mechanical Engg Department conducts event 'Acceleration'.

Students play vital role in planning and execution of these activities 2.2 Social student bodies: Various social bodies have student representation. This includes women grievance redressal committee, grievance redressal committee and anti ragging committee.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni Association is registered on 12-12-2005 no. MHA/1465/05/Solapur The association interfaces between the alumni and the institute, creating a strong network. It provides opportunities to the students to excel in their field by using expertise and guidance of alumni who have already established themselves as successful professionals and entrepreneurs. The functions of the association are : 1) To bring the Alumni together to keep them in contact with the Alma-mater. 2) To foster the relationship between Alumni and present students. 3) To get participation of Alumni in developmental activities of the Institute. 4) To develop Industry-Institute interaction through Alumni members. 5) To improve placement opportunities for fellow alumni fresh graduates. The activities of the Association is entrusted and vested in accordance by the Alumni Association Governing Body. It includes President, Secretary, Joint secretary , Treasurer and seven other members. The governing body shall meet at least twice a year.. The General Body meetings of the Alumni Association of W.I.T., Solapur helds at least once in a year. The Alumni of different batches come together and have meets of their batches. So far alumni association of W.I.T. has successfully conducted such Alumni Meets at Solapur, Pune, Delhi and abroad in Seattle,U.S.A. Alumni representation on various statutory bodies Internal Quality Assurance Cell (IQAC), BOS member: The alumni who are members of Board of Studies (BOS) are invited for the meetings wherein they play a major role in the process of curriculum improvement by suggesting changes according to current industry trends. Internal Quality Assurance Cell (IQAC) of the institute has alumni as a member who is involved in the development and application of quality benchmarks for various academic and administrative activities of the institution. Departmental Advisory Board: Alumni are part of the departmental advisory board. They suggest changes in the course content and new courses to be introduced in various programmes Industry Expert: Expert talk by alumni, working in different organizations enable students to know the current industry

trends, the corporate culture which enhances the teaching learning process and employability. Internship Entrepreneurship Awareness: Alumni from different domains help students to get internship at industry. The Entrepreneurship Development Cell (EDC) of the institute organises lectures by alumni to inculcate entrepreneurship skills in the students. Alumni are invited as judges for various technical competitions organized at the institute. Student's employability enhancement Placement: Alumni significantly contribute in the student placement activity. Some alumni act as linkages between the student and company to check that the requirements of the industry are satisfied before they are finally selected. Alumni Feedback: The institute takes regular feedback from alumni on various issues which help in overall development of students. They share their professional experience and share recent technologies and tools used in the industry. Our many Alumni have acquired top positions at various National and International Organisations. Most of them still interact with the faculty members and seek their guidance. This year many distinguished Alumni visited the Institute on various occasions and were felicitated.

5.4.2 – No. of enrolled Alumni:

1684

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Association Meetings were held on 22/09/2018, 9/3/2019 and on 26/3/2019. The information about alumni contribution through different activities for Institutional development was given. The Alumni association has provided the various platforms for alumni in Institutional development activities. As an appreciation, many distinguished alumni were invited as Chief guest, Keynote speakers on various occasions such as Engineers day, WIT char -18 a mega event of National Level Technical Symposium at WIT, Solapur held on 16th March 2018., and Annual Prize distribution function . 1. 7 alumni are working as Adjunct Faculty 2. 14 Alumni are on Departmental Advisory Board 3. 34 Alumni delivered Expert Lectures 04 have come as resource person for workshops 4. 11 Alumni were called as chief guests Guest of Honour 5. 07 Alumni were Judges for various technical events

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. NPTEL Local Chapter The chapter has been functioning successfully since January 2017 and faculty member Mr. Vipul H. Kondekar is spearheading its activities as the Single Point of Contact (SPOC). Decentralization is achieved through 'Departmental faculty coordinator' who looks after various activities like providing a list of available SWAYAM courses, students' enrollment, exam registration, identifying needy students for fee waiver, ascertaining suitable courses and faculty mentors through discussion with respective HODs. Every mentor is assigned @25 students for guiding and monitoring students for MOOC. 92 faculty members were assigned the role of a mentor in 2018-19. In the year 2018-19, there were total 6152 enrollments for 406 various courses through our Local chapter. Out of 2720 students who appeared for the NOC examination, 2370 students successfully completed the courses with Gold, Silver and Elite certificates resulting in a success rate of 87 along with 37 National level Top Performers. Moreover, NPTEL course credit transfer is implemented by PAH

Solapur university and a total of 582 students were given the benefit of credit transfer. As an outcome of this, Students are able to inculcate Lifelong learning, self-learning skills, avail the flexibility of learning 24/7 and explore the thrust areas of their interest. This activity has enhanced Technical as well as Soft Skills of the students, which has helped phenomenally for their placements and higher studies. Due to this outstanding performance, our NPTEL Local Chapter bagged 1st rank in Maharashtra 12th rank at all India level. 2. Professional Society Student Chapters Professional society student chapters - Computer Society of India (CSI), The Institution of Engineers India (IEI), Indian Society for Technical Education (ISTE) are actively engaged in organization of events for student development. Every professional society student chapter functions independently with organization structure as Chairman, Secretary, Treasurer and Ladies representative alongwith one faculty coordinator with following objectives: I) To provide environment for maximizing Human Resources II) To prepare students for Global competitions III) To enhance Employability IV) To inculcate team building spirit, social responsibility accountability More than 35 in-house events like Technical quiz, Aptitude tests, Virtual recruitments, Programming contests, Group discussion, Expert lectures, Industrial visits, Webinar, Workshops, Sports competitions etc., are organized yearly and around 2000 plus students actively participate in these events. In addition to in-house events, these chapters also organize National level symposiums namely WITChar, WITech Acceleration every year. @3000 participants across the nation actively participate in these symposiums. . ISTE Students Chapter is also associated with Kirloskar Ferrous Industries Ltd, to organize events related to Environmental Issues. Our ISTE Students chapter was awarded Best Students Chapter in Maharashtra and Goa section in the year 2016-17. IEI (India) Students' chapter offers scholarships to the needy students and has been recognized as one of the best chapters in Maharashtra. CSI student chapter has been awarded the most prestigious award from CSI India for best accredited student branch for consecutive three years and as Best Coordinator for 2016-17.

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
Curriculum Development	Being an affiliating institution, we follow university curriculum which maintains balance of various components. Suggestions received by DAB from various stakeholders on curriculum and average mapping of COs to POs/PSOs are considered for curricular development. On the basis of feedback and attainment level of outcomes, gap identification is done and the identified gaps are communicated to university for curriculum revision. Till revision these gaps are delivered as content beyond the syllabus for attainment of outcomes. During year 2018-19 the curriculum was revised for second and final year of four years course in which our faculty contribution is significant.

Teaching and Learning	<p>Faculty competency is ensured through HR management while maintaining student-faculty ratio. Our teaching-learning (T-L) process is blended student centric. Digital learning at institute includes e-content generation within institute, implementation of LCM, Use of instructional Strategies ICT Tools, e-submissions etc. 1041 videos and 85 LCM have been created during 2018-19. Part course delivery through LCM will be extended to few courses. Lower order thinking skills are assessed through conventional modes LMS-MOODLE and higher order thinking skills are assessed through PBL/competitions. Twice Students' feedback on T-L process every semester is seeds for improvement. Adherence to academic calendar is @95.</p>
Examination and Evaluation	<p>The institute has a focus on Outcome Based Education and the assessment and evaluation is aligned accordingly. Assessment is aligned with Program Outcomes (POs) Program Specific Outcomes (PSOs) which are attained through course outcomes. Assessment questions are based on different levels of Bloom's Taxonomy All the internal assessment is carried out as per the pre-declared schedule (with 90 adherence) and within an open environment with readdressal of grievances rose by student, if any. The assessment uses a blend of conventional and ICT based tools. Being an affiliated institution, the End Semester Examination is conducted by PAH Solapur University</p>
Industry Interaction / Collaboration	<p>Institute has Industry-Institute Partnership Cell for organizing internships, collaborative projects, research-consultancy, expert lectures on cutting edge technology, industrial visits training. During 2018-19, four additional MoUs were signed (total 32 MOUs). A Revenue of Rs. 22,72,000/- was generated through testing and consultancy. 48 industrial visits, 166 industry expert lectures were organized. 29 Industry collaborated projects were undertaken. 30 faculties have undergone industrial training 15 faculties provided training to 17 industries. Institute had a "Platinum Rating" in AICTE-CII Survey Award 2019 for "Best Industry Linked Institute"</p>

for all courses. @80 students are placed and 600 students have completed their internship.

Library, ICT and Physical
Infrastructure / Instrumentation

Library has holdings of 22981 titles, 58647 volumes of books, 77 print journals and 542 e-journals. Digital library upgraded with sufficient number of computers with high speed Internet e-resources. ERP software is in place. MIS is implemented at institute. Faculty members started using ICT to facilitate teaching-learning with instructional strategies. Institute have 31916 sqm built-up area and adequate facilities of PCS. 916 computers connected through structured cabling, two MOODLE servers wi-fi zones are created. 8 Smart classrooms are developed for strengthening blended learning. Institute is having Equipments of Rs. 1887.02 lakhs. Faculty creates learning videos in-house at E-learning Centre.

Admission of Students

Institute disseminates information about admission process schedule regularly through our website and other platforms. Admissions are through State Central Admission Process, strictly adhering to rules regulations of competent authority. Admission process is totally transparent and digitized including collection of fees through Payment Gateway and fees collected as decided by state fee regulatory authority. Our website is instrumental and effective in dissemination of admission schedule and process. During 2018-19 filling rate is 95, total 2469 students are admitted out of them 1452 are male and 1017 female students. @10 students are from other states.@70 students are recipient of scholarships.

Human Resource Management

Institute has well defined strategic management planning on the basis of SWOC analysis for better HR management. Accordingly faculty members were trained for enhancing their competency, non-teaching technical staff were provided an opportunity to undergo training. During 2018-19, faculty have done 548 course certifications. 36 non-teaching staff completed course on 'Linux' 20 on 'MOODLE'. The faculty staff are encouraged for qualification upgradation through various motivational schemes. The policies are transparent disseminated through website. Appreciation/Reward for

Remarkable Work/Outstanding Contribution/Ph.D. completion . Promotions for good work/outstanding contribution based on PBAS performance. Financial support through loan upto Rs. 10 lakhs. Welfare fund for medical expenses. Best Teaching/Non-Teaching employee award for devoted employee.

Research and Development

Research activities at Walchand Institute of Technology include funded research projects, and Industry collaborated projects. The institute is a recognized 'research centre' of PAH Solapur University. Thirty faculty members hold Ph. D. degree. Out of 55 admissions at WIT 'Research Center', 22 candidates have completed their Ph. D. in last six years. Institute faculties have been working on AICTE RPS funded projects worth Rs.45 lakhs. Institute allocated RD fund worth Rs 2874087/- in year 18-19. Total 77 industry collaborated projects were undertaken during year 2018-19. Research is carried out in thrust areas viz. Seismic performance of structures, Monsoon prediction Image Video Processing, Mechanical Microsystems, Data mining, Parallel Distributed Computing, Machine Learning, Genetic algorithms, Education Technology etc, In academic year 2018-19, total 51 papers were published by faculty in International Journals and 18 papers were presented in National and International conferences.

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

E-governance area	Details
<p>Planning and Development</p>	<p>E-Governance for planning and development is information system software that integrates departments and functions across an organization into one computer system. This runs on a single database, enabling various departments to share information and communicate with each other. The systems comprise function specific modules, designed to interact with the other modules. • Students and faculty have access to e-mail and internet. Most of the data on admission, course allocation, timetable, course evaluation and practice activities are computerized. Administrative activities such as accounting, purchase etc. are also computerized for swift execution</p>

of tasks and for instant availability, on the net, of the information needed by administrative officers. Most of the software needed for all this is installed. I.T. resources, databases and functional facilitation have been established, and are accessible as per needs. Faculties have access to Intranet and internet to augment their teaching and for the staff to carry on their work. The teachers have e-repositories in the departments to store their material. Master soft ERP software Master soft colleges ERP solution for our institution ensures effective support, retrieval and efficacy of data • Finance management solution manages college budget and meet college's reporting requirements.

This is a suite consisting of integrated modules that gives executive functions to college departments like Accounting, Payment operations, Transaction, Budget plan, Scholarship / Grants management, Stock Management, Book keeping and Report generation. • External examiner's remuneration deposit using online banking. Faculty and staff Salary or other payment are done online or through cheque. • Students event entry fee and college fee accepted through online banking

Administration

Various administrative activities are done through ERP software. Once student enroll till issue of TC. On completion of graduation, all activities documentation is done through ERP software. The library is fully automated transactions such as the issue/return of books. Students are able to search books online on the basis of their need. All day to day in house communication is done through intranet. Adequate computational facility is installed at entire institution. Even stakeholders' feedback is online. Institute is slowly marching towards paperless office. All the information, policies, notices activities are disseminated through institute website. Faculty e-Course Book, is an in-house tailor-made digital application to streamline the process for better governance for Outcome Based Education (OBE) and which is time saving tool for an individual faculty and for the Institute. Faculty e-Course Book efficiently serves the

objective of maintaining the various records digitally by faculty members, which enables compiling the information digitally and archival of the same in the future leading to green engineering and paperless model.

Finance and Accounts

All the financial transactions are recorded in ERP software. All the financial statements like receipt payment A/c, Income Expenditure, Balance sheets are extracted from the ERP software. The bank reconciliation is also done through software. We encourage students to pay their college fees online through payment gateway. Salary to staff is credited to their bank account. All the payments of vendors, utility bills, various Taxes, are made using net banking facility. Exam remuneration, student's deposits are paid using bulk payment facility. Institute is moving towards the fully digitized payment system from system of cash payments. All audited statements are available on institute website.

Student Admission and Support

Entry level Students admissions are done through State Central Admission Process, which is totally transparent and digitized. The whole process of admission which includes registration, document verification, application form confirmation, Option form filling Allotment is online. Institute disseminates information about admission process schedule regularly through our website and other platforms. The facility of payment gateway has been introduced which enables parents to pay fees online knowing the exact amount of fees to be paid. Student feedback collection its analysis are done through software. Online grievance system is implemented. Student progress is communicated digitally. All the information is disseminated through web portal. Scholarship exam forms are online. For Self Learning 2720 Students have registered for NPTEL online courses and they study on LCM. Students are provided with a computational facility to appear for Proctored examination using AIO for enhancing their placement opportunity. Competitions such as Hackathon (software hardware edition) are organized which are totally digitized. Webinars of industry experts

helps students to enhance their employability. e-Learning material is created and e-books, e-journals are readily available to students. WhatsApp application, Google forms, Google classroom and other platforms are used for assimilation and dissemination of knowledge and application.

Examination

Moodle is a Learning Management System (LMS) which is primarily used to provide online support for courses of a program. At our institute, MOODLE platform is effectively used for Publishing of Courses, Assessments and Feedback. Every faculty has created Learner Centric MOOC (LCM) i.e. Learning Dialogues (LeDs), Learning by Doing (LbDs) and assignments using MOODLE platform. Virtual Programming Lab (VPL) on MOODLE is effectively used for all programming languages benefitting both students and faculty. Students can run programs interactively. Also, Faculty members evaluate programming assignments by setting various test cases. VPL is also used for programming contests effectively. Other ICT tools like Socrative, Kahoot, Padlets, Google forms, Google classrooms, SAFE tools, BodhiTree, Virtual Labs and various Simulation tools are used for formative and summative assessments. 2720 have appeared 2370 have passed NPTEL online examination and credit transfer to certain extent is done of these NPTEL courses for award of degree. The End semester examination is set with QPDS, Bar-coding onscreen assessment therefore total examination system is digitized.

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
2018	Mrs.R.K. Dixit	IEEE Ninth International Conference on Technology for Education (T4E) at Indian Institute of Technology	Nil	10400

		Chennai		
2018	Ms. D. D. Awasekar	IEEE Ninth International Conference on Technology for Education (T4E) at Indian Institute of Technology Chennai	Nil	13800
2019	Mr. P. G. Chitte	Paper Publication in International Journal of Mechanical and Production Engineering Research and Development , Trans-Stellar Publisher	Nil	16000
2018	Mrs. M. A. Nirgude	IEEE Ninth International Conference on Technology for Education (T4E) at Indian Institute of Technology Chennai	Nil	18150
2018	Mrs. S.M. Dol	IEEE Ninth International Conference on Technology for Education (T4E) at Indian Institute of Technology Chennai	Nil	18150
2018	Mr. S. R. Barbade	Workshop on Use of Learning Technologies in Engineering Education at IIT Bombay	Nil	3845
2018	Mr. S. C. Deshmukh	2nd International Conference on Science Technology Management at Punjab University, Chandigarh	Nil	4585
2018	Mr. S.S.	Faculty	Nil	5568

	Shakhapure	Development Program on Agile software Development at Infosys Limited Kanpur		
2018	Mr. A. S. Naik	Faculty Development Program on Agile software Development at Infosys Limited Kanpur	Nil	5753
2019	Mrs.S. K. Karpe	Paper Presentation in 3rd International Conference on Smart Computing and Informatics (SCI) at Kalinga Institute of Industrial Technology, Bhubaneswar	Nil	8000
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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)
2018	Foundation Program in ICT for Education- Autumn 2018	Not applicable	13/09/2018	18/10/2018	26	0
2018	ET702x: Designing Learner-Centric MOOC- an online course	Not applicable	02/08/2018	06/09/2018	123	0
2018	FDP301x Mentoring Educators in Educational Technology	Not applicable	17/05/2018	05/07/2018	73	0

2019	One day Scilab Workshop by IIT Bombay	Not applicable	04/05/2019	04/05/2019	58	0
2019	Smart Classrooms: Technology-Aids for Effective Teaching Learning	Not applicable	03/05/2019	03/05/2019	115	0
2019	Two Days National workshop on "CMOS LOGIC Design	Not applicable	27/01/2019	28/01/2019	24	0
2019	MOODLE Learning Management System	MOODLE Learning Management System	15/03/2019	15/03/2019	67	25
2018	Not applicable	Koha and Library Automation	12/10/2019	12/10/2019	0	29
2019	Not applicable	Koha and Library Automation	09/03/2019	09/03/2019	0	2
2019	Not applicable	Spoken Tutorial Training Program for Linux	10/04/2019	30/04/2019	0	36

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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
AICTE FDP for Student Induction	3	10/06/2019	16/06/2019	7
6 days Faculty Enablement Program on InfyTQ based Foundation Program	1	06/05/2019	13/05/2019	6
NPTEL FDP: Developing Soft Skills and	13	27/08/2018	19/10/2018	5

Personality				
ET-101x-SKVIZ101x-Fundamentals of 3D Visualization 4 29/08/2018 to 7/10/2018	4	29/08/2018	07/10/2018	10
FDP301x Mentoring Educators in Educational Technology	73	17/05/2018	05/07/2018	10
FDP201x Pedagogy for Online and Blended Teaching-Learning Process	20	30/10/2018	13/12/2018	10
FDP101x Foundation Program in ICT for Education	21	13/09/2018	21/10/2018	10
ET702x: Designing Learner-Centric MOOC- an online course	123	02/08/2018	06/09/2018	20
Pedagogy for Online and Blended Teaching-Learning Process - Autumn 2018	26	25/10/2018	29/11/2018	10
Foundation Program in ICT for Education- Autumn 2018	26	13/09/2018	18/10/2018	10
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
136	150	114	118

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Recognition to outstanding faculty with "Bhauasheb Gandhi Sevabhavi Puraskar" . 2. Facility of Group Medical Insurance, EPF and Gratuity Fund for regular	1. Recognition to outstanding non-teaching staff with "Bhauasheb Gandhi Sevabhavi Puraskar" for their devoted work 2. Facility of Group Medical	1. Various scholarship schemes for eligible needy students 2. Tuition Fee Waiver scheme for Economically Backward Students 3. Book Bank facility 4. Book loan

<p>faculty 3. Availability of financial support through various schemes of employees co-operative society. (Patapedhi) 4. Provision of employer Welfare Fund Savings Scheme by Credit Co-operative Society. 5. Recognition /Promotions for good work based on PBAS performance and outstanding contribution/ completion of Ph.D.. 6. Deputation for higher studies. 7. Promotion to higher post. 8. Opportunities to upgrade their knowledge through training. 9. Duty Leave/Medical Leave/study leave/Maternity Leave. 10. Birthday celebration. 11. TA and DA for presenting technical papers in national and international conference 12. Admission to ward on priority basis. 13. Need based advance against salary.</p>	<p>Insurance, EPF and Gratuity Fund for regular non-teaching staff 3. Availability of financial support through various schemes of employees co-operative society. (Patapedhi) 4. Provision of employer Welfare Fund Savings Scheme by Credit Co-operative Society. 5. Recognition /Promotions for good work based on PBAS performance and outstanding contribution. 6. "Earn while you learn" scheme for non-teaching staff, for higher education during service. 7. Extending facilities for higher studies to non-teaching staff. 8. Promotion to higher post. 9. Duty Leave/Medical Leave/study leave/Maternity Leave. 10. Birthday celebration. 11. Admission to ward on priority basis. 12. Need based advance against salary</p>	<p>scheme to the handicapped, topper and SC-ST students 5. Felicitation to meritorious students 6. Awards prizes on achievements in Academic, co-curricular, extra curricular sports activities. 7. Accidental Insurance scheme for students 8. Medical facility through MOUS with various hospitals</p>
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6.4 – Financial Management and Resource Mobilization

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

Institute for its transparency and consistency in operational activities carry out internal audit continuously through a qualified person appointed on the roll of the institute. It focuses on routine activities and suggests the areas for improvement. The internal audit also aims at minimizing discrepancies to be identified through external audit. As an impact of judicious Internal audit, external auditors report has no adverse remarks regarding the state of affairs of the Institute. The financial audit of the institute is conducted annually by an independent external firm of Chartered Accountants. Auditors visit our premises twice a year owing to large volume of financial transactions. Our staff cooperates fully by providing all the necessary information and explanation, so that the audit can be completed on timely basis. Auditors give their opinion whether financial statements present true and fair view of state of affairs of the institute at the end of that financial year and whether the financial statements are prepared in accordance with specified Accounting and Auditing standards formats specified by ICAI. The audited financial statements are submitted to various competent authorities.

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
S.A.P.D.J..Pathashala	25850105	For Academic Development Maintenance

No file uploaded.

6.4.3 – Total corpus fund generated

54805000

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Industry / Academic Expert outside the Institute	Yes	Faculty from other department of the Institute
Administrative	Yes	Industry / Academic Expert/ outside the Institute	Yes	Faculty from other department of the Institute

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

1. Parents Meet 2. Feedback from parent 3. Support to co-curricular extra curricular activities 4. Participation on various administrative committees

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

1. Workshop on Koha and Library automation in Collaboration with IIT Bombay. 2. Training Program on LINUX organised by the Institute in Collaboration with Spoken Tutorial Project, IIT Bombay. 3. Workshop on Moodle learning management system in Collaboration with IIT Bombay

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

1. Efforts to have paid internships for students. This year 53 students have done paid internships. More focus was on conversion of students' internship into placement. As a result, 16 internships converted into placements. 2. Students are encouraged to use platforms such as Hacker Rank, Hacker Earth, etc. for improving problem solving skills through programming: Nearly 300 students are benefited. 3. Web Proctored assessment has become part of campus recruitment. Therefore to facilitate proctored evaluation, 25 AOI (All-in-one) Computers are procured with which nearly 600 students are benefited. 22 high end other 25 computers have facilitated projects in Mobile Application Development (MAD) Machine Learning. 4. LCM is created by faculty for 95 courses (partially) with 687 videos. LCM has improved student's learning. 5. 369 course certifications are done by faculty members.

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	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Comprehensiv	03/07/2018	02/07/2018	30/04/2019	2856

	e feedback from all stakeholders shall be collected and analyzed				
2018	Annual internal Academic Audit of all programs shall be carried out. An action plan shall be prepared for improvement in consultation with faculty and staff	03/07/2018	03/09/2018	17/09/2018	302
2018	Participation in NIRF	03/07/2018	08/09/2018	29/11/2018	302
2018	Participation in AICTE-CII Survey for recognition of Industry Linkages	03/07/2018	04/07/2019	30/08/2019	302
2018	Accreditation of institute by NAAC	03/07/2018	04/07/2018	14/08/2018	2818
2018	Accreditation of four UG programmes by NBA.	03/07/2018	04/07/2018	26/10/2018	1995

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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
Tree plantation drive.	01/07/2018	10/07/2018	49	71
Fitness Workshop	08/03/2019	08/03/2019	98	0

Guest Lecture on "Tips on Health Care"	08/03/2019	08/03/2019	40	0
Maharashtra Startup Innovation Yatra & Boot camp	17/10/2018	17/10/2018	51	94
International Yoga Day	21/06/2019	21/06/2019	44	76
Blood Donation Camps	06/10/2018	06/10/2018	61	494
Women Empowerment and Legalities - Interaction with Judges	13/03/2019	13/03/2019	125	55
WITchar- A National Level Technical Symposium	21/03/2019	22/03/2019	579	1798
Engineers Week Activities	31/08/2018	15/09/2019	1381	1603
Art Exhibition	24/02/2019	24/02/2019	396	158
WITech-A National Level Technical Symposium	15/09/2018	15/09/2018	247	425
Entrepreneurship Awareness Camp	19/01/2019	20/01/2019	37	77
Swachhta awareness camp at village Kandalgaon Tal. South Solapur	25/08/2018	26/08/2018	71	89
Swachh Bharat Summer Internship 2018 at Tirhe Tal. North Solapur	05/01/2018	31/07/2018	5	5
Green College Clean College" PPT Competition	07/03/2019	07/03/2019	8	12
Entrepreneurship summit at Indian Institute of Technology, Bombay	19/01/2019	20/01/2019	3	8

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

• Major steps are taken by WIT on Energy conservation like optimum use of paper which has saved 87 trees in the year 2018-19. • WIT carbon footprint has been developed to understand the impact of human activity on climate and make modification that can reduce carbon emission and its impact on environment. • Reusable treated grey water helps in reducing 25 percent of the overall water requirement of the campus. • Similarly the renewable resources (Solar Panels) installed in the college campus generates 40 percent of the total electricity requirement. • Rainwater harvest has been implemented to recharge ground water table. Soak pit are made at many places for rain water to percolate in ground and reducing the runoff water in sewers. • Sharing of vehicles has been implemented in the faculty residing in same local area so as to save energy and reduce emission of carbon dioxide.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	3
Provision for lift	Yes	3
Ramp/Rails	Yes	3
Rest Rooms	Yes	3
Scribes for examination	Yes	2

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
2018	39	39	02/07/2018	240	Consultancy	Technical Services are provided to various local government and private organizations	28
2018	1	0	01/12/2018	120	University Central Assessment Program Center	College is being within 5 Km radius from railway station and bus stand. It is a local con	370

						venience for examiner and moderator of solapur university , since all other engineering institutions are on the outskirts of the city.	
2018	11	0	02/07/2018	11	Pool Campus Center	We are the most preferred institution for campus placement by Industry. When any industry thinks of pool campus our institution becomes a best location for pool campus. Generally in a year 9-10 pool campuses takes place.	3353
2018	3	0	31/05/2018	90	Online First Year, Direct Second Year, ME Admission Process Facilitated at Online Center	Institute being centrally located in the city. It is most communicable place. Our institute is making	1833

						itself available as a facility center wherein candidates can come and complete their online process for admissions.	
2018	0	1	03/09/2018	84	24 x 7 continuous water supply: A need of smart city	Store water for long period due to existing intermittent water supply system (every 4 days). Mosquitoes breed in stagnant, standing (Stored water) found around the home. Convert existing water supply system to continuous water supply system.	7
2019	0	1	19/03/2019	28	Preparations of Road Safety Audit for two Major Intersections at Shanthi Chowk and Aasra Chowk Solapur	One day traffic and pedestrian survey conducted at two junctions direction wise. after detailed analysis	143

						it is proposed that, junctions needs to be reconstructed along with incorporating new signs, signals, marking etc..	
2018	6	0	02/07/2018	13	Online Exam	As institute is located in heart of the city and is well equipped with required infrastructure to conduct online examination and it is convenient for all local students	2429
2018	1	0	08/08/2018	224	Development of Computer tool for annual 'Water Audit' in Jalayukta Shivar Scheme	Dynamic Crop Planning for a village based on Monthly rainfall Managing Water Resources in Sustainable Manner according to 'Jalyukt Shivar' Project of Maharashtra.	10

2018	1	0	06/08/2018	140	Optimization of fly ash mix using artificial sand	Solapur region is suffering from scarcity of natural sand. The industrial sand is used as an alternative to natural sand. During the process the mix was redesigned to reduce cement consumption from conventional mix.	9
2018	0	4	02/07/2018	180	Pradhan Mantri Kaushal Vikas Yojana (PMKVY)	Batches of different courses has been rolled out to enable local youth to take up skill training and become employable	74
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of Conduct Handbook	20/01/2018	Institute believes in transparency in its functioning. In view of this, institute has prepared the code of conduct which includes service rules, method of recruitment, leave rules, medical facility, conduct

		<p>discipline, Annual confidential report alongwith duties responsibilities of employees. The handbook for code of conduct is available on the institute website and is being continuously referred by faculty, staff and students. Faculty and staff adhere to various rules regulations and ethical moral guidelines of it. All faculty and staff submit Annual Self Evaluation Report which is assessed properly to stimulate appropriate actions and rewards for healthy working environment.</p>
<p>Core Values</p>	<p>20/01/2018</p>	<p>Students are instrumental in organizing various events. @1500 students showcase their talents through various co-curricular extra-curricular events. @400 students have bagged the prizes upto International/National level. Faculty members employ disruptive innovations enriching Teaching-Learning process and are motivated for qualification upgradation skill enhancement, 548 certifications is testimony to it. Funds/grants of @Rs.30lakhs received through various resources towards research and innovations, leading to 33 quality research publications. 3600 feedback from all, Administrative-Academic Audit and SWOC Analysis are seeds used for overall improvement and progress. Ownership and responsibility is inherited in our culture indicating synergy and is</p>

well appreciated by institute.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Lectures on Universal Human Values	02/08/2018	13/08/2018	497
Course on Professional Ethics Human Values	29/07/2018	28/10/2018	35

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

1. Eco friendly campus is the need of present. It shows the college is concerned about the environmental problems and their sustainable solutions. WIT is focused and working at a faster rate to become Eco friendly campus. WIT invented its own and specific "carbon footprint calculator" to calculate CO2 emissions from the campus. To minimize CO2 emissions various solutions planned and implemented successfully. 2. WIT continuously worked keenly on "green campus" idea. Policies were made to work with the further green agendas. Green policies will make WIT to work by using green materials. Modifying the classroom and laboratories to use minimum electricity by having good ventilation and air circulation, so that minimum light and fan are used. 3. Use of LED energy efficient light bulbs to save energy. Monitoring of Solar energy through IoT app. 4. Cut down on the paper and keeping electronic copies instead of taking print out and reducing impact on environment with the help of brainy technology and heart full society. 5. Collection and recycle of dry and waste material separately. 6 Use of Free Open Source Software:20 to 40

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1 Faculty e-CourseBook - An in-house tailor-made digital product for maintaining record of faculty Course file and allied details.

1. Objectives

- Digitizing the faculty academic records to make documentation easier and simpler for continuous improvement.
- Bringing uniformity in maintaining academic records
- Managing, monitoring and utilizing the data effectively for continuous improvement

2. The Context In an Outcome Based Education (OBE), a course file is an essential document. However, maintaining a course file as a hard copy is time consuming task and deriving various metrics from course file is challenging due to non uniformity. Therefore, institute developed Faculty e-CourseBook to streamline the process for better governance through standardization and step towards digitization, time saving for faculty members.

3. The Practice Faculty e-CourseBook is used as a tool for maintaining academic records by an individual faculty member, which serves as vital input to improve the quality of teaching-learning and continuous monitoring by authorities. Faculty e-CourseBook is in modular form relating to OBE, Faculty Performance, Academic Schedule, Assessment Continuous Improvement, Personal details of a faculty member. At commencement of every semester, Coordinator creates a copy of e-CourseBook (taking into account all suggestions and grievances received) for every faculty member and assigns 'right to view' to HODs and Principal for monitoring from time to time. Faculty e-CourseBook efficiently serves the objective of maintaining the various records which enables compiling the information and archival of the same for deriving the various matrices by the institution. This assists to submit information to various authorities as and

when required, leading to green engineering and paperless model. 3.1 Implementation Details: A team of Faculty has developed Faculty eCourseBook using Gsuite containing following modules: • Personal details • Timetable • POs/PSOs/PEOs • Course details • Attendance: Theory/Practical/Tutorial • ESE/ISE/ICA Assessment • Research publications • Conference/Workshop/FDP details • Departmental/University work • ET and LCM activity details Faculty eCourseBook Monitoring • Principal • Head • Departmental e-CourseBook Coordinator • Class Coordinator • Course Teacher

3.2 Journey: Institute has started Course Book in the hard copy in 2013-14. As a step towards digitization, in 2016-17 we have developed a soft version of Faculty Course Book in a word document. Later we have developed it in a Gsuite for maintaining it easily from anywhere and anytime. As a pilot project, it is implemented for Computer Science Engineering and information Technology programs in 2018-19 and @35 faculty members have used Faculty eCourse Book. On the basis of feedback, the Faculty eCourse Book is revised in the year 2019-20 and nearly all faculty members of our institution are now using Faculty eCourse Book for their academic record maintenance.

4. Evidence of Success • All faculty members are maintaining their academic records through Faculty e-CourseBook. • Faculty e-CourseBook is one of the approved best practices of AICTE. All faculty members from our institute are using this e-CourseBook for maintaining academic records. • Institute has received "Clean Smart Campus Award-2019" for this best practice

5. Problems Encountered and Resources Required • Initially during the development phase Domain creation and content generation took more time • Collaboration and testing • Training is essential for non IT background faculty • Regular follow-up facilitation was required for the successful completion of activity Resources required • Product development expertise. • Coordinators for regular follow ups • Google mail and drive

Best Practice 2 Professional learning community (PLC) - A model incorporating ET Practices for continuous improvement in blended Teaching-Learning process.

1. Objectives • To provide a platform for faculty members to share and exchange views/suggestions regarding Education Technology (ET) research experiments, a way to improve Teaching-Learning (T-L) process continuously. • To blend various learner centric strategies and ICT tools in Teaching-Learning process to enhance learning outcomes, while addressing diverse students groups • To review ET activities periodically provide expertise/guidance through regular meetings follow ups. • To engage teachers in peer discussions and assessments of the resources created and to make available course contents in the form of videos, OER etc. and create Learner Centric MOOC (LCM). • To facilitate students to learn anywhere, any times and many times.

2. The Context Innovation in teaching-learning is always necessary for education to help students to explore their full potential and to enhance creativity and critical thinking. Teachers' belongingness for innovation is a key factor for its success. Conventional teaching learning process can be strengthened by blending ET practices for active learning. To facilitate the innovations, we have established localized PLC at the institute level.

3. The Practice PLC at our institute is constituted to continuously enhance teaching-learning process, which is comprised of administrator, ET experts ET researchers, departmental coordinators and novice learners. Regular meetings facilitate interaction through group dialogue to a significant extent peer review and individual counseling, if required and connect through departmental coordinators for implementation. This Organizational structure and leadership practices served to create a foundation for intra and inter department collaboration. Through Local study groups, members actively get engaged in peer discussion and review of the resources created. Rubrics are developed for assessment employing collective wisdom of PLC which focuses on disruptive innovations in teaching-learning through:

1. Creation of e-contents and LCM 2. Continuous use of different Instructional Strategies and ICT tools during course delivery 3. Use of learning management system (LMS): MOODLE For generating quality content, recording studio titled 'E-Learning Centre' is

established. Through continuous monitoring, peer review, experimentation and counseling, the results have been achieved to empower teachers to create course content in form of videos for the benefit of student learners. Every faculty member keeps on adding videos in a phased manner and is creating LCM partially on Institute MOODLE server. In addition to watching the videos, students carry out activities based on the content of the videos and accordingly they are assessed. PLC has set a well defined process for video creation LCM implementation, use of instructional strategies ICT Tools.

3.1 Planning

1. Preparation of course content
 - Identification of topics/units for creating Videos (Single Unit/muddiest Points/Problem Solving etc.)
 - Content verification and authentication by departmental experts based on rubrics (Learning outcome, Content Quality, Reflection Spot, Duration, citations, presentation etc.) set by PLC.
2. Schedule for creation of video and posting on YouTube after department screening approval
3. Implementation of LCM (Learning Dialogues (LeD), Learning by doing (LbD) followed by Assignment) on MOODLE spread over the semester
4. Planning of Instructional Strategies/Tools/Innovations for every course in addition to LCM

3.2 Implementation

1. Schedule for the student for implementation execution of LCM
2. On completion of LCM, Feedback by student course faculty on activity
3. Submission of departmental ET report
4. Review on completion of activities further planning

Thus, 3600 feedback by stakeholders assists in overall improvement of the activity. Quality of e-content generation has improved to a remarkable level enabling disruptive innovation in higher education, while enabling students to learn anywhere, anytime and many times.

3.3 Journey:

- 2015-16: 32 faculty members started pedagogy initiatives to improve teaching-learning.
- 2016-17: Faculty members received training on ET and started employing instructional Strategies ICT tools during content delivery. They created videos as a learner using Screencast. @7 instructional strategies and @6 ICT tools were practiced.
- 2017-18: Every faculty member created three videos using Screencast for flipped classroom approach. They continued to use instructional strategies and ICT tools.
- 2018-19: Total 1041 videos and 180 LCM created on MOODLE platform along with employing ET strategies and ICT tools. @15 instructional strategies and @10 ICT tools were practiced.

4. Evidence of Success

- PLC activities were highly appreciated by gathering of the Fourth International Conference LaTiCE 2016 at IIT Bombay and organizers have disseminated this success story to stakeholders for implementations as a Role Model.
- As on date (14-11-2019), @1600 videos are created and published on our YouTube Channel, for which subscribers are 4760 and views are 641812. YouTube link: <https://www.youtube.com/channel/UCb9okJF6NGPDUGgAQxu3TcA>
- All faculty members are implementing various ET practices for their course delivery resulting improvement in students' performance. Out of this, substantial practices are emerging as some of the best practices after due iterations.
- Received grant of Rs.25,05,000/- for establishing e-learning centre from AICTE New, Delhi.
- One faculty member is recipient of IUCEE outstanding Engineering Educator Award for the year 2016 amongst 5 from all over India. In all, 4 faculty members are recipient of IUCEE Faculty Fellow Award all over India.
- 29 faculty members of our institute are amongst top 253 nationwide recipients of SAP Fellowship Award and 23 faculty members have worked as Associate Faculty of IIT Bombay for FDP on ET.
- 49 Research publications in ET during last five years.

5. Problems Encountered and Resources Required

- Initially faculty members were novice in ET. Therefore training, mentoring Research on ET were necessary.
- Collaboration and peer assessment
- Regular follow-up facilitation
- Resources required
 - Smart Classroom
 - Recording Setup
 - MOODLE Server
 - Internet
 - Expertise in ET.

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

<https://witsolapur.org/bestpractices.php>

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

Mutually Beneficial Industry-Institute Collaboration The institute continuously strives to achieve its vision that states "To produce young, globally competent Graduates/ Doctoral Engineers with an aptitude for leadership and research, to face the challenges of modernization and globalization courageously, who will be instrumental for overall growth of the society" The Institute has a well structured Industry Institute Partnership Cell (IIPC) for engaging activities with Industry in collaboration. Industry experts including our alumni, who are frontiers in their respective professions, are invited for interaction. Discussions are focused around internships, student projects, guest lectures, curriculum reframing, entrepreneurship, collaborative academic activities and research, technical support for establishing new laboratories, etc. Industry expert's representations on various institute bodies provide us an opportunity to seek implement suggestion of improvement. Recommendations of industry experts are sent to the board of studies for due consideration and are implemented in the curriculum. Institute received a "Platinum Rating" in AICTE-CII Survey Award 2019 for "Best Industry Linked Institute" for all courses. Orientation courses for students from college to corporate are organized. Skill development programmes are under taken by the institute with the view of making students Industry-friendly and Industry ready candidates • Institute has many functional MoUs with industries, benefiting both through laboratory development and other various collaborations. During 2018-19, four additional MoUs were signed making total 32 MOUs. The institute continues research and project work with sponsored labs - ARM (UK), Cypress (US), ACTEL (US) and IBM • A Revenue of Rs. 22,72,000/- was generated through testing and consultancy to 97 industries. 48 industrial visits, 166 industry expert lectures were organized. 29 Industry collaborated projects were undertaken. 30 faculties have undergone industrial training 15 faculties provided training to 17 industries. • The institute has 2-way linkage with industries where industry experts provide training to the faculty and students through various foundation programs. During 2018-19 total 12 experts from leading industries rendered their services as adjunct faculty. • Faculty of institute provides training to industry and other academia. In 2018-19, institute provided training to 32 industry persons of 15 leading industries. Worth mentioning is institute's engagement with industry to provided training and project based consulting services on Cloud and AI/ML technologies. The institute provided training sessions to approximately 100 participants from industries like Société Générale, CGI Inc, Saama Technologies (India) Pvt Ltd, First American Corporation (India) Pvt Ltd on the AWS, Azure, GCP and AI/ML. • The Placement Training Cell functions with the primary aim of placing students in top-notch companies even before the program completion. During 2018-19 total 410 final year students were placed through on campus placement drive across 72 companies of national and international repute with highest salary of 10 Lakhs PA and average salary of 3.24 Lakhs PA. • During 2018-19 the institute has actively participated in collaborative projects for textile industry, sugar industry, Jalyukt Shivar Abhiyan and Smart City project. • The institute has established Entrepreneurship Development Cell with the objective of creating and fostering the spirit of entrepreneurship among the youth.

Provide the weblink of the institution

<https://witsolapur.org/pdfs/institutional-distinctiveness.pdf>

8.Future Plans of Actions for Next Academic Year

- Institute is planning to implement autonomy from the year 2020-21 subject to

approval. The autonomy will be used as an advantage to provide curriculum flexibility. Accordingly, the entire system for autonomy will set.

- Continue to participate in various quality evaluation surveys like NIRF, AICTE-CII Survey for Industry Linkages, Times of India survey, etc.
- Introduce an Honors degree in emerging areas such as Data Science, Artificial Intelligence Machine Learning, Internet of Things (IoT) and Cybersecurity.
- Collaborations with foreign universities/organizations
- Thrust will be on various collaborations with industry through various linkages and research in collaboration with industry issues of societal relevance will be undertaken.
- Enrich infrastructure for facilitating disruptive innovations in teaching-learning and research.
- To Increase no. of proposals for raising funds/Grants through various Government/Non-Government funding schemes, sponsored projects consultancy and publish quality research papers.
- Continue to undertake various programs for up-gradation in qualification and enhancement of skill of faculty Non-teaching staff. Encourage faculty to complete their doctoral studies.
- Faculty to create e-contents (Videos) and Learner Centric MOOC, carry out various Education Technology (ET) practices enriching Teaching-Learning process and promote various best practices
- Efforts to create MOOC on SWAYAM /other MOOCs platform /any other Government initiatives
- Regular use of platforms like Hacker Rank, Hacker Earth, etc. for improving problem solving skills through programming.
- Increase participation in various co-curricular activities like Smart India Hackathon, Project Competitions, Paper presentation, etc.
- Efforts will be taken to have paid internships for students will have more focus on the conversion of students' internships into placement. All students will undergo at least one month Internship.
- Various training programs for students to enhance employability.
- The self learning ability of the students shall be nurtured by making them enrolled for various courses available on the MOOC platform to inculcate life long learning.
- To create awareness and assist society in various national programs and societal Activities
- Plastic-free campus initiatives: Ban on plastic bags <50 microns thickness, promote the use of jute/cloth bags and personal steel utensils for catering, initiation of research, awareness programs, ban on non-recyclable plastic bottles lesser than 500ml, reuse of plastic waste in the form arts and useful products
- Promote 4R (Reduce, Recycle, Reuse, Restore) practices for optimal use of natural resources for sustainable development
- Increase use of Free Open Source Software to a possible extent
- Organize a workshop on Environment and climate change
- @2-5 extension activities per year for providing 'Green Solutions to rural problems'
- Partnering with NGOs to implement a technologically-driven environment and sustainable solutions