



YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	Walchand Institute of Technology, Solapur
• Name of the Head of the institution	Dr. Vijay Anant Athavale
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	2652700
• Mobile no	9417701740
• Registered e-mail	principal.witsolapur@gmail.com
• Alternate e-mail	principal@witsolapur.org
• Address	Seth Walchand Hirachand Marg Ashok Chowk,
• City/Town	SOLAPUR
• State/UT	Maharashtra
• Pin Code	413006
2.Institutional status	
• Affiliated /Constituent	Affiliated
• Type of Institution	Co-education
• Location	Urban

• Financial Status	Self-financing				
• Name of the Affiliating University	Punyashlok Ahilyadevi Holkar Solapur University, Solapur				
• Name of the IQAC Coordinator	Dr. Sachin Ratikant Gengaje				
• Phone No.	02172652700				
• Alternate phone No.	02172653040				
• Mobile	9028874000				
• IQAC e-mail address	iqac@witsolapur.org				
• Alternate Email address	srgengaje@witsolapur.org				
3.Website address (Web link of the AQAR (Previous Academic Year)	www.witsolapur.org				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://witsolapur.org/academic-calendar.php				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A+	3.26	2018	30/11/2018	31/12/2026
6.Date of Establishment of IQAC			02/01/2017		
7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,					

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Department	AICTE-ISTE Induction/ Refresher Program	ISTE	2021, 1 year duration	93000.00
Department	Research Grant	ASHREA	2021, 1 year duration	US\$ 4000
Institution	SPICES- Scheme for Promoting Interests, Creativity and Ethics Among Students	AICTE	2021, 1 Year duration	100000.00
Faculty	Breakthrough Research	P.A.H. Solapur University	2021, 2 years duration	200000.00
Faculty	Travel Grant	AICTE	2019, 1 Year duration	103563.00
Department	National Ambient Air Quality Monitoring Program	Maharashtra Pollution Control Board, Govt. of Maharashtra	Every Year	610000.00
Department	Workshop Grant	P.A.H. Solapur University	2018, 1 Year duration	10000.00
Faculty	Research Promotion Scheme	AICTE	2017, 3 Years duration	2352941.00
Institution	E-Learning Centre for Technical Education	AICTE	2017, 3 Years duration	2505000.00
Department	Modernization and	AICTE	2017, 2 Years	1020952.00

	Removal of Obsolescence Sche(MODROB)		duration	
Faculty	Research Promotion Scheme	AICTE	2016, 3 Years duration	2098000.00
Department	Modernizatio n and Removal of Obsolescence Sche(MODROB)	AICTE	2016, 2 Years duration	1994500.00
Department	Workshop Grant	Solapur University	2016, 1 Year duration	5000.00
Department	Workshop Grant	Solapur University	2016, 1 Year duration	10000.00
Department	Workshop Grant	Solapur University	2016, 1 Year duration	10000.00
Department	Workshop Grant	Solapur University	2016, 1 Year duration	10000.00
Department	Workshop Grant	Solapur University	2016, 1 Year duration	10000.00
Department	Workshop Grant	Solapur University	2015, 1 Year duration	12000.00
Department	Workshop Grant	Solapur University	2015, 1 Year duration	12000.00
Institution	EDC - Entrep reneurship Development Cell	AICTE	2013, 2 Years duration	500000.00
Institution	IPS - Innovation Promotion Scheme	AICTE	2013,1 Year duration	300000.00
Department	Modernizatio n and Removal of Obsolescence Sche(MODROB)	AICTE	2013, 1 Year duration	1491000.00

Department	Modernization and Removal of Obsolescence Sche(MODROB)	AICTE	2013, 1 Year duration	400000.00
Faculty	Career Award For Young Teachers	AICTE	2013, 3 Years duration	297000.00
Department	Seminar Grant	AICTE	2013, 1 Year duration	150000.00
Department	Seminar Grant	AICTE	2013, 1 Year duration	150000.00
Faculty	Research Promotion Scheme	AICTE	2013, 3 Years duration	2323334.00
Faculty	Research Promotion Scheme	AICTE	2013, 3 Years duration	539584.00
Department	Modernization and Removal of Obsolescence Sche(MODROB)	AICTE	2013, 1 Year duration	1780000.00
Department	R&D Project	Institution of Engineers (I), Kolkata	2012, 1 Year duration	61000.00
Department	Staff Development Program	AICTE	2012, 1 Year duration	1,40,000.00
Institution	Industry Institute Partnership Cell(IIPC)	AICTE	2011, 2 Years duration	700000.00
Department	Modernization and Removal of Obsolescence Sche(MODROB)	AICTE	2011, 1 Year duration	7,20,000.00

Department	Staff Development Program	AICTE	2011, 1 Year duration	120000.00
Department	Staff Development Program	AICTE	2010, 1 Year duration	120000.00
Institution	Thomas Edition Program for Environmental and E-Learning Development (TPED)	TIDALDATA	2010, 1 Year duration	1400000.00
Faculty	Fastrack for Women	Govt. of India Ministry of Sci. & Tech., New Delhi (DST)	2010, 1 Year duration	216000.00
Department	Modernization and Removal of Obsolescence Sche (MODROB)	AICTE	2010, 1 Year duration	1000000.00
Department	Staff Development Program	AICTE	2009, 1 Year duration	205000.00
Faculty	Research Promotion Scheme	AICTE	2006, 3 Years duration	600000.00

8. Whether composition of IQAC as per latest NAAC guidelines	Yes
<ul style="list-style-type: none"> • Upload latest notification of formation of IQAC 	View File
9.No. of IQAC meetings held during the year	4
<ul style="list-style-type: none"> • Were the minutes of IQAC meeting(s) and 	Yes

compliance to the decisions have been uploaded on the institutional website?		
<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded	
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No	
<ul style="list-style-type: none"> If yes, mention the amount 		
11.Significant contributions made by IQAC during the current year (maximum five bullets)		
<p>1.Inculcating life-long learning through self-learning using Coordinated Student Development (CSD) model - This contribution aims at facilitating for the students an access to various global platforms through tie-ups, including industry collaborations to enhance professional development. This also aims at encouraging students to take up appropriate courses to earn credits and/or for overall development, in self-learning mode at their pace. As an outcome of this practice, during AY 2020-21</p> <ul style="list-style-type: none"> Total 4767 student registration for 298 various courses through our NPTEL local chapter. 852 student certifications are done. 27 are the national level toppers from the institute. Total 2331 certifications are completed by 1682 students on EDx Platform for online courses. Total 10179 students' registration by 2484 students and 7779 course completions on Infosys Springboard for various online courses. 234 students successfully completed #Google Cloud Ready campaign towards achievement of the ultimate milestone. 791 no of learners completed 1488 courses As on date Total number of videos uploaded is 3454. Number of subscribers are 24939 and Number of views are 3,775,484 for our YouTube channel. 1184 videos are created by faculty members and uploaded on institute YouTube channel. As on date total no of videos created are 3454, no of subscribers are 24939 and views are 3,775,484. In the pandemic situation of COVID-19 these videos are found to be useful. 		
<p>2.To facilitate faculty create Learner centric MOOC(LCM) with increased percentage of course e-content which can be used effectively by students. As an outcome of this practice, during AY 2020-21</p> <ul style="list-style-type: none"> 12 instructional strategies and 10 ICT tools are employed 1184 videos are created by faculty members and uploaded on institute YouTube channel. As on date total no of videos created 		

are 3454, no of subscribers are 22993 and views are 3421803. • @ 20% of the course contents are delivered through LCM . 211 LCM (partial courses) are created on institute's Moodle. • In the pandemic situation of COVID-19 these videos are found to be useful.

3.Encouraging and facilitating faculty for R&D - Faculty members shall carry out R&D activities through funded & collaborated research by applying to various govt. / non govt. funding schemes, sponsored projects and consultancy and shall publish their research in quality journals & conferences. Below is the outcome for AY 2020-21 • The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has sanctioned grant of US\$ 4000 for research grant of title 'Design and performance evaluation of hybrid heat exchanger used in Thermal Energy Storage' to WIT Student Chapter of ASHRAE. • AICTE has sanctioned grant of Rs. 1 lac under SPICES-Scheme for Promoting Interests, Creativity and Ethics among Students. • One Breakthrough research proposal of Dr.B.B.Deshmukh entitled 'Development of a solar based Thermal Energy Storage system using Phase Change Material (PCM) with reference to textile Industry' has been sanctioned by PAH Solapur University with 2 years duration with grant of Rs. 2 Lacs. • A total revenue of Rs. 20,65,560/- was generated through testing and consultancy in F.Y. 2020-21. • 21 industry collaborated research / consultancy projects completed. • 08 faculty members have submitted nominations for various ISTE awards (Individual category) at national level and 06 faculty members have submitted nominations for various ISTE awards (Individual category) for Maharashtra-Goa section.

4.Mandate to various quality initiatives for ensuring quality to the various stakeholders Accordingly, in AY 2020-21 institute participated in • AICTE-CII Survey • AICTE's 'Lilavati Award' • NIRF Ranking. • 'Best Institute Award' to ISTE for Maharashtra-Goa Section. • 'Clean & Smart Campus' Award. • 'Atal Ranking of Institutes on Innovation Achievements' • 'Best Engineering College' Survey by India Today.

5.To Encourage students to use professional platforms to become professionally competent and enhance students' learning through Project/Problem Based Learning(PBL) and to enhance employability of students by daily one hour training sessions Below is the outcome for AY 2020-21 • During the year @21 industry collaborated projects are completed. • 03 competitive coding contests were conducted. This has helped student for preparing for and bagging good packages from companies like Infosys, TCS & Persistent Systems. • WIT Hardware & Software Hackathon was organized. • Out of seven teams participation, three teams qualified and participated in Grand Finale of SIH-2020. and one team namely 'Bug Zero' won Best Tagline

Award for tagline "Bugs Busted, Done Dusted" • Won Second prize worth Rs. 1,00,000/- in Assam Police Hackathon 2020, among 2286 teams all over India • Won first prize of Rs 10,000/- at the StartUp Idea Contest 2k20 organized by IET • Won Consolation prize in SYNFIG Studio 2D Animation Hackathon conducted by IIT Bombay. • Two teams from WIT were amongst the 100 finalist team out of 390 teams at the National level Pan-India IEEE Gov-TechThon 2020 Virtual Hackathon. • One team (25 student members) built an ATV automobile named "blackweasel 3.0" in college workshop and competed in National level Off-road design event BAJA2020 and secured 65th overall rank. • Students showcased their talent at various National/ State level competitions and are recipient of awards. • Under the Ready Engineer Programme, Tata Technologies trained 140 students on various software. Total 90 students qualified with "A grade", in the online examination. WIT ranked amongst top 5 institutes in India in Ready Engineers Programme. 02 students are recruited by Tata Technologies through DRE drive • 14 students have completed "Google Career Readiness Program" offered as courser specialization course as a part this students received access to premium Coursera courses.

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

Plan of Action	Achievements/Outcomes
All faculty shall continue creation of Videos and Learner centric MOOC (LCM)	During 2020-21 12 instructional strategies and 10 ICT tools are employed. 25% of the course contents are delivered through LCM, 211 Learner Centric MOOCs created partially on institute MOODLE 1186 videos are created by faculty members and uploaded on institute YouTube channel. As on date Total number of videos uploaded is 3454. Number of subscribers are 24939 and Number of views are 3,775,484 for our YouTube channel.
Innovations in Teaching-Learning shall be encouraged	Innovations in Teaching-Learning process employing 12 instructional strategies & 10 ICT tools have improved student's learning. Outcome of these innovations is 06 research publications.

<p>Inculcate life-long learning through self-learning using Coordinated Student Development (CSD) model.</p>	<p>?NPTEL Total 4767 students' enrollments by 1251 students for 423 various courses through our NPTEL local chapter. Total 852 certifications are completed by students out of them 27 are the National Level Toppers from the institute ? Topper of 1%: 6 Nos. ? Topper up to 2%: 12 Nos. ? Topper up to 5%: 27 Nos. ? EDX 1682 students have successfully completed 2331 certifications on various MOOC courses offered on Edx platform. ? 791 students have successfully completed 1488 Coursera courses ?Infosys Springboard 12484 students from FE to BE have registered for various courses on Infosys Springboard platform. 265 students have completed the certifications.</p>
<p>Enhance students' learning through PBL</p>	<p>21 industry collaborated projects are successfully completed by students.</p>
<p>Encourage the use of various platforms such as Hacker Rank, Hacker Earth, Code Chef for improving problem solving skills through programming.</p>	<p>03 competitive coding contests on various platforms such as Hacker Rank, Hacker Earth, Code Chef have been conducted . This has helped students bag good packages from companies like Infosys, TCS & Persistent Systems.</p>
<p>Encourage students to participate in various Hackathons</p>	<p>WIT Hardware & Software Hackathon was organised. Students' participation in various Hackathon is on rise. Due to focused efforts students have won prizes as follows- ? Won Second Prize worth Rs. 1,00,000/- in Assam Police Hackathon 2020, among 2286 teams all over India. ? Won First Prize of Rs 10,000/- at the</p>

	<p>Start Up Idea Contest 2k20 organized by IEI. ? Consolation prize in SYNFIG Studio 2D Animation Hackathon conducted by IIT Bombay. ? Seven teams participated in the competition of Toycathon-2021, a MHRD initiative. ? Two teams from WIT were amongst the 100 finalist team out of 390 teams at the National level Pan-India IEEE Gov-TechThon 2020 Virtual Hackathon.</p>
<p>One hour everyday training and for employability enhancement of students shall be imparted for all SE, TE, BE students</p>	<p>Employability of students is enhanced resulting in overall improvement in placement. Impact analysis due to enhanced employability In the year 2020-21 total 58 companies visited campus for placement & 483 offers are received in these companies with a maximum package of Rs. 10 lacs p.a.</p>
<p>Facilitate & Encourage students to enroll for #GoogleCloudReady program</p>	<p>234 students successfully completed #Google Cloud Ready campaign towards achievement of the ultimate milestone.</p>
<p>Training on Emerging Technologies in sync with Industry 4.0 shall be conducted</p>	<p>? Nine guidance sessions are conducted by industry experts. ? Fourteen training sessions are conducted to enhance General Aptitude i.e. quantitative ability, Logical reasoning, and verbal ability. ? Under the Ready Engineer Programme, Tata Technologies trained 140 students on various software. 90 students qualified with "A grade". 02 students are recruited by Tata Technologies through DRE drive.</p>
<p>Focus to enhance students' internship with stipend.</p>	<p>Total 1548 internships are successfully completed by</p>

	<p>students out of them, 44 are with stipend. Most of the students have done internships online due to Covid-19 pandemic.</p>
<p>Facilitate to encourage faculty to acquire doctoral qualification</p>	<p>?Three faculty members have awarded Ph.D. degree ?Nine faculty members have registered for award of Ph.D. degree ? As on date 35 faculty members are having Doctorate Degree and 33 faculty members from different departments are pursuing Ph.D. at various universities.</p>
<p>Continuous up gradation of faculty competency by attending FDP/STTP/Training/Workshop/Seminar/ conferences to keep the pace with the industrial revolution shall be done.</p>	<p>?Total 514 certifications are successfully completed by faculty members through 388 FDP/Workshop/STTP etc. ?363 certifications through MOOC courses on various platforms like NPTEL, Coursera and EDx.</p>
<p>Enhancing various facilities in the institute</p>	<p>Ten GMeet licenses were procured for smooth conduction of all activities in online mode with a capacity to accommodate 250 participants at a time.</p>
<p>To increase the industry collaborations</p>	<p>Institute is now a RedHat Academy partner. A Laboratory of 25 desktop machines has been set up by RedHat with RHEL OS to foster open-source adoption at the institute. As a part of MOU expert talks, training has been organized and course contents are available free of cost. MOU with National Highway Authority of India (NHAI) is signed and one more MOU is in process. As on date institute is having total 23 Active MOUS</p>
<p>To encourage faculty to have more quality research publication</p>	<p>During 2020-21, ? Faculty members have published Eighty Eight (88) quality research publications in various</p>

	<p>national/international journals & conferences. Out of them 28 are Scopus indexed. ? Two faculty members are awarded for 'Best Paper' in the international conferences.</p>
<p>Faculty shall generate funds through various govt. / non govt. funding schemes, sponsored projects and consultancy</p>	<p>During A.Y. 2020-21 ?10 research proposals and 03 other proposals are submitted to various govt. / non govt. funding schemes Following grant proposals are sanctioned ? The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have sanctioned a grant of US\$ 4000 for research entitled 'Design and performance evaluation of hybrid heat exchanger used in Thermal Energy Storage' to WIT Student Chapter ASHREA. ? PAH Solapur University has sanctioned grant of Rs. 2 Lacs for Breakthrough research(Outstanding research) entitled 'Development of a solar based Thermal Energy Storage system using Phase Change Material (PCM) with reference to textile Industry' with PI Dr.B.B.Deshmukh of 2 years duration. ? AICTE have sanctioned a grant of Rs. one lac for SPICES-Scheme for Promoting Interests, Creativity and Ethics among Students. ? A total revenue of Rs. 20,65,560/- was generated through testing and consultancy.</p>
<p>To ensure the quality to the various stakeholders' institute shall participate in various Govt./non Govt. evaluation surveys to know the institute's</p>	<p>In the year 2020-21 institute has participated in ? AICTE-CII Survey ? AICTE's 'Lilavati Award' ? NIRF Ranking. ? Submitted nomination to ISTE for</p>

relative position	<p>'Best Institute Award' for Maharashtra-Goa Section. ?</p> <p>'Clean & Smart Campus' Award. ?</p> <p>'Atal Ranking of Institutes on Innovation Achievements' ?</p> <p>'Best Engineering College' survey by India Today Institute is 'Winner' of AICTE's 'Lilavati Award' in the sub-theme 'Women Health' by presenting a unique intervention carried out under the overall theme "Women Empowerment"</p>
Accreditation	<p>NAAC: The E-AQAR of 2019-20 is submitted. NBA: The compliance reports of 4 UG programmes Civil Engg., Mechanical Engg., Electronics Engg., Electronics & Telecommunication Engg. are submitted to NBA. On the basis of compliance report, The extension of accreditation is received for 1 year up to 30-06-2022. However till date visit could not take place due to pandemic situation and is expected any time. Revised SAR with CAY 20-21 for Computer Science & Engineering and Information Technology is ready for submission. Autonomy: UGC & PAH Solapur University has conferred a fresh autonomus status for the period of 10 years from A.Y. 2021-22.</p>
Proposed to change nomenclatures for existing traditional courses in Emerging / Multidisciplinary areas	<p>The nomenclature of two existing courses are changed in Emerging /Multidisciplinary areas from AY 2021-22 as 1. From Electronics Engineering To Electronics & Computer Engineering 2. From Mechanical Engineering To Mechanical & Automation Engineering.</p>

<p>Initiatives towards Innovations, Product Development, IPR and establishing Pre-incubation Center and Incubation Center</p>	<p>Institute has constituted the 'Institute Innovation Cell (IIC) and prepared Innovation and Start-up Policy 2021.</p>
<p>To offer Skill based courses</p>	<p>05 skill based courses were offered and students have successfully completed the certification.</p>
<p>To inculcate creativity and design thinking among students</p>	<p>Institute has taken a lead to design a course namely 'Creativity & Design Thinking' to be implemented at first year. Accordingly affiliating university PAH Solapur University has included this course on 'Creativity & Design Thinking' in First Year Engineering curriculum. A workshop to facilitate T-L of 'Creativity & Design Thinking' is organized for the benefit of all faculties of affiliated institutions.</p>
<p>Organization of various co-curricular & extracurricular activities</p>	<p>During 2020-21 49 various co-curricular activities such as workshop/webinars/competitions were organised 18 various extension activities are conducted under various initiatives such as Green Initiative, Voter Awareness, Swachha Bharat etc. Participation in AICTE's 'Lilavati Award' for two sub themes 'Women's Health' and 'Sanitation & Hygiene'. Participation in AICTE's 'Clean & Smart Campus' Award</p>
<p>13. Whether the AQAR was placed before statutory body?</p>	<p>Yes</p>
<ul style="list-style-type: none"> Name of the statutory body 	

Name	Date of meeting(s)
College Development Committee	05/03/2022
14. Whether institutional data submitted to AISHE	
Year	Date of Submission
2020	16/01/2020
Extended Profile	
1. Programme	
1.1 Number of courses offered by the institution across all programs during the year	10
File Description	Documents
Data Template	View File
2. Student	
2.1 Number of students during the year	2423
File Description	Documents
Institutional Data in Prescribed Format	View File
2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	1
File Description	Documents
Data Template	View File
2.3 Number of outgoing/ final year students during the year	633
File Description	Documents
Data Template	View File

3.Academic	
3.1 Number of full time teachers during the year	160
File Description	Documents
Data Template	View File
3.2 Number of sanctioned posts during the year	157
File Description	Documents
Data Template	View File
4.Institution	
4.1 Total number of Classrooms and Seminar halls	42
4.2 Total expenditure excluding salary during the year (INR in lakhs)	721.07
4.3 Total number of computers on campus for academic purposes	637

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

Being an affiliated institution, we follow the course curriculum prescribed by PAH Solapur University, Solapur (PAHSUS), which is continuously revised. The institute has its well-defined process to plan and execute activities for effective implementation of the curriculum delivery. On the basis of Institution academic calendar, department and teachers prepare their teaching/activity plans respectively for every theory and practical subject. On the basis of stake holders' feedback & PO/PSO attainment, curriculum gap is identified and delivered through teaching-learning or self learning

mode as content beyond curriculum. An appropriate action plan for non-attained POs/PSOs, if any is prepared & implemented to ensure attainment. teaching feedback from students is also considered for effective delivery of contents. Various skill development and value-addition courses are offered for students. Faculties use various active learning strategies to enhance the critical thinking and problem-solving ability of the students. Visits, workshops, training sessions are arranged as per requirement of the curriculum to enhance students learning. 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)".

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

An academic calendar is prepared at institute level to plan the curricular, co-curricular and extracurricular activities and is published well before the commencement of the semester. All components related to different stakeholders like alumni and parents meet, industry interactions, etc. are also considered. Department Head in consultation with various activity in-charges prepares academic calendar for the department in sync with institute academic calendar. Academic calendar includes a schedule for start and end of teaching as well as laboratory work. In Semester Evaluation (ISE) and Internal Continuous Assessment (ICA) forms an integral part of the 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, industrial tours and visits, lectures by industry experts, programs by student's associations are considered in the academic calendar. All activities related to assessment and examinations are strictly carried out in accordance with the schedule indicated in the academic calendar. Variation, if any, along with the reason becomes part of the 'Executed Academic Calendar', prepared after completion of the semester. The reasons for variation, if any, are analyzed and are considered input for improving the academic calendar of the next cycle.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

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

A. All of the above

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

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

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

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

10

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

5

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

658

File Description	Documents
Any additional information	No File Uploaded
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

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

The institute integrates Cross-cutting issues relevant to Environment & Sustainability, Human Values and Professional Ethics through about 10 courses in the Curriculum and one 'Honors Degree' in 'Sustainable Engineering'.

'Induction program' for UG students develops awareness, sensitivity, and understanding of the self, and the society at large. The course of 'Universal Human Values' develops a holistic perspective towards life and profession and emphasizes 'value-based living'. The course on 'Environmental studies' emphasizes on need pollution-free environment and the need of protecting & preserving natural resources such water bodies, forests etc. Courses on Economics, IPR, Sociology, Stress & Coping, Professional Ethics & Human Values cover different aspects of cross-cutting issues.

Institute is keen on sensitizing 'Gender equity', by providing

opportunities through various relevant activities to lady staff and students. Fearless environment is well insured to women through CCTVs, Security personnel, and mentoring. Girl students have representation on various committees and activities. Special efforts are taken to enlighten on various 'Health issues in Ladies', 'Personal Health Care', 'Food and Nutrition', and 'Stress Management for Working Women', etc. Yoga & Health club, Gymnasium facilities are also provided. A special 'Internal complaint committee' for girls, lady faculties, and staff takes into consideration their grievances if any.

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

18

File Description	Documents
Any additional information	No File Uploaded
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	View File
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

1276

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders
Students
Teachers
Employers
Alumni

A. All of the above

File Description	Documents
URL for stakeholder feedback report	https://www.witsolapur.org/pdfs/Feedback-Report.pdf
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - Feedback process of the Institution may be classified as follows

A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	No File Uploaded
URL for feedback report	https://www.witsolapur.org/pdfs/Feedback-Report.pdf

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

641

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

264

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

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

A student is continuously assessed (CIE) during theory & laboratory sessions through classroom interactions, attentiveness, willingness to participate actively in Q&A session/discussions, student learning ability, etc. Students learning levels are appraised through In-Semester Evaluations (ISE), Internal continuous assessment (ICA). On the basis of these CIE, student is identified either as slow learner, if student's performance is up to 50% , or as advanced learner.

Following facilitations are provided to slow learners till they become advance learner:

- Make-up Classes, Remedial/Revision classes/lab sessions
- More Assignments, Subjective & Objective Tests
- Retest for desirous
- Faculty generated Course Videos are provided to facilitate students learning by watching the videos anywhere, any time and many times

The programs for advance learner are:

- Guidance for competitive exam for higher studies and for employment and Organization of various events at the national level technical symposium at the institute to showcase their leadership and interact with outside counterparts.
- Encouraging for outside participation through National/International Technical Events
- Various co-curricular and extra-curricular events through, various students professional society activities(IEI,CSI,ISTE,ED Cell, SSDC, TESA, MESA, CESA)
- Self-learning through online certification courses (NPTEL,InfosysHeadstart, edX,MOOC, Spoken-tutorial,Internshala etc.) Proctored mentoring system is in place to support students in all circumstances.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

Number of Students	Number of Teachers
2423	160

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

To facilitate disruptive innovations in T-L process, Institute has established Professional Learning Community (PLC), which focuses on e-content creation, continuous use of instructional strategies& ICT tools during course delivery, use of learning management system. At the commencement of semester, every faculty member submits course teaching plan along with ET Activity planning which includes name of topics & details of instructional strategies and/or ICT tools to be employed, Schedule for activity etc. Some of the student centric methods used are: Participative Learning: Gamification, Treasure Hunt, Role Play, Jigsaws, Visualization (Animation/Simulation/Live Coding etc.), Flipped-Classroom, Think-Pair-Share, Pair Programming,

Peer Instruction.

Problem/Project Based Learning (PBL) includes open ended quizzes, competitive and collaborative learning to design and develop solutions to given problem statements.

Experiential learning is practiced through hands-on sessions, industrial/vocational training, Hackathons, Mini-projects, Virtual-labs to build fundamentals and core competency.

On an average 15 instructional strategies are employed in every semester leading to enhancement in student's learning. Substantial ET practices are emerging as some of the best practices after due iterations.

Because of all these efforts of blended T-L, during COVID-19 pandemic, we could smoothly shift overnight from physical classroom mode of teaching to an online mode of teaching.

File Description	Documents
Upload any additional information	View File
Link for additional information	https://drive.google.com/file/d/1qE4mgASaUhKeghcomC5kQvDkAP3mpSDg/view?usp=sharing

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Nearly all faculty members took formal training in Education Technology (ET). They are employing instructional strategies & ICT Tools such as Socrative, Kahoot, ModelSim, Selenium, LogicSim, Weka, Parsing emulator, JFLAP, Visualization Tutor, Tableau, Simulation Tools etc. during content delivery and assessment. Thus, the conventional teaching learning process is strengthened by blending ET practices.

They are using own created e-contents as well as available resources such as NPTEL, Vlab, Spoken Tutorial, other MOOCs to cover the content of curriculum and beyond.

In addition to conventional ways of assessment, different ICT tools are employed for effectiveness and immediate feedback on content delivery. Tools such as Socrative, Kahoot etc. are used for this purpose.

All students and faculty members are enrolled on two MOODLE servers which are accessible remotely. MOODLE platform is effectively used for Publishing of Courses and their assessments, Feedback on T-L process, employability enhancement activities etc. Virtual Programming Lab (VPL) on MOODLE is effectively used for all programming languages benefitting both students and faculty.

Virtual Lab experiments are used to conduct laboratory experiments virtually using animation/simulation for various courses.

On an average 10 ICT tools are employed in Teaching-Learning process in every semester into enhancement in student's learning.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

2.3.3.1 - Number of mentors

131

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

160

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

35

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

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

2.4.3.1 - Total experience of full-time teachers

1838

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The assessment schedule is predefined in the Academic Calendar and adherence is more than 90%. Generally the CIE assessment module is

comprised of 3 ISE tests and ICA according to the structure. ICA includes students' participation, performance and quality of assignments etc. Desirous/Aggrieved students are provided with an opportunity for improvement.

The question papers prepared by subject teachers are scrutinized w.r.t. mapping of questions to COs and cognitive levels of Bloom's taxonomy and appropriateness by experts before the test. Assessment results are in public domain.

Other assessment modes are: viva-voce, case studies, presentations, design sheet submission, e-submissions etc. Various platforms adopted for other assessment are Google Forms, Google Classroom, Virtual Programming Lab (VPL) on MOODLE and Learner Centric MOOC (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 on inculcating the habit of self learning amongst students and hence due weightage for online certification courses through NPTEL/eDX/Coursera/Infosys Springboard etc. is given. There is inbuilt robust mechanism for redressal of the grievances at Institute and department level.

File Description	Documents
Any additional information	View File
Link for additional information	Nil

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

Continuous Internal Evaluation (CIE) which weighs @45% is comprised of In-semester Evaluation (ISE) for theory courses and Internal Continuous Evaluation (ICA) for Laboratory, courses. CIE is robust and transparent due to the features: well-defined course & assessment schedule, evaluation rubrics, opportunity grievance, addressal and redressal for aggrieved students, availability of assessment results in public domain, students' performance are communicated in stipulated time, appropriate opportunities for slow and advanced learners.

Lower cognitive levels are well addressed through ISE and ESE whereas higher cognitive levels are assessed through Mini/Major/course Projects, Internships etc. Course faculty through

CIE assesses students to identify slow and advanced learners. Other assessment modes are assignments, seminar, quizzes and other ICT tools.

Assessment of ICA is on the basis of set of experiments/assignments. The poor performing students are given opportunity to improve their performance through additional practice/test. Rubric for ICA is comprised of: regularity & pro-activeness, performance and quality of assignments.

Aggrieved students contact teacher and put forth his grievance. Teacher redoes the exercise, even then if a student is still aggrieved, they approach departmental committee.

Because of robust and ever evolving system such grievances are negligible. However, Students feedback forms a basis for improvement of the system.

File Description	Documents
Any additional information	View File
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

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

While implementing outcome-based education (OBE) since 2011, institute provides the formal training to faculty and staff regularly by arranging workshops making them competent to implement OBE. Even some of the teachers undergo the courses on OBE. In course curriculum COs are well defined. CAM is prepared for all courses.

The curriculum which also contains PEOs, POs and PSOs along with COs for all the courses is well disseminated through the following modes to students.

- Websites of university and institute (www.witsolapur.org).
- At the commencement of semester, teachers give in depth knowledge about COs. The COs is displayed in the laboratories.
- PEOs, POs and PSOs of the programme are widely displayed at all prominent places of department such as HOD cabins, Notice boards, Classrooms, Laboratories and Newsletters, Lab manuals etc.

- Dissemination to the external stakeholders
 - Department Advisory Board (DAB) meeting
 - Parents meeting
 - Alumni meeting, Alumni Visit/interaction
 - Campus drive, training sessions

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil
Upload COs for all Programmes (exemplars from Glossary)	View File

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

For Outcome based Assessment, appropriate assessment methods and tools are used after reviewing by the DAB to improve teaching-learning on a continuous basis.

At the commencement of semester, teacher prepares CO assessment plan. As well the course outcomes are mapped with POs and PSOs on the scale of 1(low), 2(moderate) and 3(high).

The Tools used for assessing CO attainment are: Internal Assessment Tool(IAT) and End Semester Examination Tool(ESET), each with weightage of 50%.

IAT is a Formative Assessment and based upon In-Semester Examination (ISE) and Internal Continuous Assessment(ICA). ESET consists of End Semester Examination(ESE) and Practical & Oral Examination(POE). The question paper is well mapped with all COs.

Attainment levels are defined through Targets which are in terms of percentage of maximum marks for which a relevant CO is assessed. It is ensured that each CO is adequately (and separately) assessed using various methods of IAT.

The total attainment of POs and PSOs is calculated using Direct Tool and Indirect Tools in the proportion of 80:20 respectively. Direct attainment level of a PO/PSO is computed by taking the average across all courses addressing that PO/PSO. Indirect attainment is calculated through Course Outcome Survey and Program Exit Survey.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

632

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://drive.google.com/file/d/1AnwDHdmFTc7YAQf1Q8JlY3Ip9ZCAZmjU/view?usp=sharing

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

<https://witsolapur.org/pdfs/student-satisfaction-survey-20-21.pdf>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

17.235

File Description	Documents
Any additional information	View File
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

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

3.1.2.1 - Number of teachers recognized as research guides

13

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

04

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	View File
Paste link to funding agency website	https://su.digitaluniversity.ac/ , http://www.sus.ac.in/ , https://www.ashrae.org/communities/student-zone/scholarships-and-grants/about-undergraduate-program-equipment-grants ,

3.2 - Innovation Ecosystem

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

Institution has established Institution's Innovation Council (IIC), with representation of Industry Experts, Alumni Entrepreneurs, Government Officers, Faculties & students.

To facilitate training to budding entrepreneurs, a coordinator and six faculty members trained by MHRD as Innovation Ambassadors in Phase I. are at the helm of the affairs.

Well disseminated Innovation & Startup Policy of the institute is in public domain along with action for the year 2021-22. Facilitation & promotion to students & faculties for innovations is done by organizing various programmes which include hackathons, idea pitching events, innovative project competitions along with mentoring to become successful innovators & entrepreneurs. Abilities are assessed through various competitions. Eighteen courses related to innovation, IPR & entrepreneurship are offered.

Eight number of Centre of Excellence with advanced tools & equipments are made available to all. Entrepreneurship Development Cell & IPR-Technology Transfer Cell is assisting students in their journey towards startup.

Facilities in the form of shared office/rooms, labs, equipments, computational facility along with mentoring & guidance are provided. We are connecting the students to alumni entrepreneur's network for mentoring & fund raising.

Students participate in SIH & other Innovation & Entrepreneurship related events within and outside the institution.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

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

30

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

1

File Description	Documents
URL to the research page on HEI website	https://witsolapur.org/research.php
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

45

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in

national/ international conference proceedings year wise during year

43

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

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

To sensitize the students and common people on the social issues, various extension activities listed below are organized in the neighborhood communities.

1. Street plays
2. Rallies
3. Competitions
4. Webinars/Seminars etc.

Swachha Bharat Abhiyan initiatives inculcate habits involving importance of cleanliness in the stakeholders of society including school children, villagers & local body representatives. Students planted different saplings under tree plantation drives. These activities were organized in collaboration with SMC, Solapur and Kirloskar Vasundhara.

Voter awareness campaign was organized to make students aware of rights & importance of participating in the electoral process. Students organized programs like new voter registration drives and street plays to encourage common people for the active participation in the election process for a transparent democratic nation to be created.

During the pandemic, through different social media platforms students raised the awareness regarding vaccination, importance of Covid appropriate norms and spread awareness about blood donation as a major community responsibility.

Students & faculties participated in different yoga and meditation sessions which helped them to understand the role they play in maintaining physical as well as mental health.

More than 100 students participated to conduct these activities, which helped them to build confidence and leadership skills.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

50

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

14

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

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

1453

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

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

36

File Description	Documents
e-copies of related Document	View File
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

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

23

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The Institute campus is spread over 22.31acres, as against AICTE-requirement of 7.5acres. Overall Carpet area of the Institute is 20081sq.m., against AICTE-requirement of 10387sq.m.

Instructional area is 13856sq.m.(AICTE-requirement:7604sq.m). Central library is of 1457.65sq.m area, against AICTE-requirement of 566sq.m. and workshop of 627sq.m. as against AICTE-requirement of 400sq.m.

40 well-equipped (LCD projector, laptops, speakers, and internet connectivity), well-ventilated classrooms with total area of 3084.05sq.m., as against AICTE-requirement of 33. Additionally tutorial rooms are provided.

The Institute has 73 well-equipped laboratories with total area of 6781.77sq.m. as against AICTE-requirement of 68, out of which, some are supported by industry/statutory bodies.

Two computer centers are provided, admeasuring total 338sq.m. against required 300sq.m. There are 721computers and 40 printers available, against AICTE-requirement of 400 and 20 respectively. 09 servers, 60 manageable, 07 POE manageable switches, 34 Wi-Fi Access points, Sophas-XG330 Firewall, 500Mbps Internet bandwidth, 55 application and 06 system software are available.

Two ICT-enabled Seminar halls, with area of 526.21sq.m.as against AICTE-requirement of 01 with area 132sq.m.

Institute established e-Learning Centre for e-content generation which is uploaded on Institute YouTube Channel.

MOODLE, BodhiTree are used as LMS. @10 ICT tools are used for content delivery and assessment. G-Suite is used effectively for T-L.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/10ZOe6VBkyGCIXDhBO1l2iG6hvhaZQwMR/view?usp=sharing

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

The Institute has a balanced environment of academic, cultural, and sports activities for students' overall personality development. Play fields admeasuring 42,199 square-meter are available on campus where the outdoor sport grounds including a Cricket field, Hockey field, Football field, Kho-Kho Court, Kabaddi Court, Tennis Court, Volleyball Court, BasketBall Court, Handball Court, and 8 lane, 400-meter running tracks are existing. There are also well-equipped indoor chess, carom, and table tennis courts.

Additionally Badminton court at Bhagat Singh Market, Markandeya Swimming Pool, Shree Health Club, Officers club for Wrestling, Gymnasium, Body Building, and Weightlifting are made available to students.

There is a spacious hall on campus for Pranayama and Yoga for students and faculty. Auditorium of area 324.0 square metres with a seating capacity of 500 persons is available. There is a 537.80 square-meter open-air theatre for cultural activities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/11PhoxWrcPK0k-jQEAVbeTCP1-QTE0gyF/view?usp=sharing

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

42

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

193.06

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

4.2 - Library as a Learning Resource

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

Library is automated using Integrated Library Management System

(ILMS) -

Data requirement for year: Upload a description of library with,

- Name of ILMS software : 1) Lib-Man : 2010 2) Koha : 2020
- Nature of automation (fully or partially) = Fully Automated
- Version 1.0 (Lib-Man), 16.04 (KOHA)
- Year of Automation: 2010

Response :

- Name of the ILMS software: LIB-MAN (Library Management System)

The library has an Online Public Access Catalogue (OPAC) is accessible in campus. Faculty members and students can access it by giving author and title details.

- Nature of automation (fully or partially): Fully Automated

The library is fully automated through LIB-MAN Software. The book circulation is registered based on students bar coded identity card and barcode on books. 1 TSC bar Code Printer and 4 Laser bar code scanner devices are available to make books issue-return process easy and accurate.

Description of Library:

The library is the heart of all academic activities of the Institute. Students are motivated to make the best use of library facilities to promote affinity towards reading and learning which are vital for the holistic development of the students. The library extends vital support to the academic and research needs of the college by providing updated and comprehensive collection of reading material.

(a) Details of library facility

Total area of Library : 1262.14 sq.mts

Total Seating Capacity : 265

Working Hours : All working days: 8.00 am to 8.30 pm

Academic weekend: 10.00 am to 6.15 pm

Examination period 8.00 am to 10.00pm

(b) Details of library holdings:

I. Central Library Books:

- Book Titles : 20501
- Volumes : 60466
- Journal : 83
- Ph.D. Dissertations Thesis : 25
- PG Thesis : 410

II. Department library Books:

- Book Titles 1561
- Volumes 3536

(c) Initiatives to render the library services to students.

- Institutes central library fully satisfies student's requirement of textbooks as per AICTE norms. Text books & reference books prescribed in the syllabus are provided in sufficient volumes. Apart from Text books on regular curriculum, Library contains some value education books, books for GATE and competitive examinations.
- The library comprises of sections like Digital library, dedicated reference section, current journal section, book issue/return section, periodicals section. A Separate space is reserved for faculty and PG students.
- 25 Computer terminals with internet connectivity are available to the students for accessing e learning resources.
- Spacious and well-furnished space with ergonomic consideration is allocated for reading section in the library.
- All the books are arranged subject-wise according to Dewey Decimal Classification (DDC) number for easy retrieval of books.
- To identify and to minimize the theft cases CCTV cameras are installed in the reading and reference section.

Online library portal (<http://witsolapur.digimat.in/>) is made

through which student and staff can access e-learning resources such as NPTEL video courses`

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	https://drive.google.com/file/d/17dKcVhE6eNTsAHXRj-0mhHw6CowugW4O/view?usp=sharing

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources A. Any 4 or more of the above

File Description	Documents
Upload any additional information	No File Uploaded
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

25.02

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

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

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

23.76

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

Institute has a campus wide networking provided to all the buildings through structured cabling, Wi-Fi and client-server architecture. The continuous scaling up depending upon usage is done by increasing numbers of manageable switches and VLANs. We have added L-2 & L-3 switches this year and as on date, there are 56 L2 and four L3 manageable switches. Laboratory wise Virtual LANs are created. Two servers namely Bodhi-Tree and Oracle are added to seven existing servers.

Entire hostel campus is Wi-Fi enabled and connectivity is through P2P. Wi-Fi zones are created in institute campus depending upon their usability. .

Institute continuously keeps on upgrading the internet bandwidth, upgraded to 500 Mbps from 220Mbps this year. Security is ensured through upgraded Sophos(XG-330) firewall and e-Scan Antivirus.

Institute has deployed Learning Management System (LMS) MOODLE on two MOODLE servers. Initially these servers were accessible within campus and now they are accessible even from outside campus, to students and faculties.

Legal licensing is taken care through Microsoft Campus agreement and various perpetual licenses. Total 55 legal application software are available.

In all 700 computers/laptops are functioning out of which 75 are recently added AIOs for proctored examination. Annual cost incurred on upgradation is @20lakhs.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Number of Computers

721

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution A. ? 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

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

528.01

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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

Institute ensures optimal allocation and utilization of the available financial resources for maintenance of various facilities through regular meetings with stakeholders. The budget allocation is factual, as it is done department-wise, leading to highest utilization of allocated budget.

1. Laboratory:

- The Laboratories are regularly maintained by the faculty In-charge of lab
- Preventive maintenance is carried in-house and record is documented
- Equipments are maintained properly and serviced periodically.
- Institute follows defined Upgradation off Policy of equipment.

2. Library:

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

4. Computers Networking:

All necessary software are installed and maintained by Laboratory assistant. Regular maintenance work is carried through Institute level maintenance cell. In case of major break down, external agencies are deployed.

5. Classrooms:

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

6. Additionally:

Regular cleaning of water tanks, water purifiers, garbage disposal, pest control, landscaping and maintenance of lawns, Sanitation of every facility is carried out every week in the pandemic

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/lwiDS_txxgPk_jmc3wux4_ulyz-NSRpioX/view?usp=sharing

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

1783

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

57

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

File Description	Documents
Link to Institutional website	www.witsolapur.org/studentdevelopmentcells.php
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

695

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

695

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent

A. All of the above

mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

358

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

20

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	No File Uploaded
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

24

File Description	Documents
Upload supporting data for the same	View File
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

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

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

10

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

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

The Institute encourages student representatives to participate/contribute in numerous decision-making, academic, and administrative committees, facilitating them to beneficiary for overall development with favourable academic environment.

Students' representation in Administrative & Academic College Committees such as College Development Committee, Internal Quality assurance Cell (IQAC), Student Council, Anti-ragging Committee, Sports Committee and Grievance Redressal Committee.

Students' Representation and Engagement in various Co-Curricular activities like National Level Technical Symposium: WITChar, WITECH, Acceleration, Engineer's Week Celebration, Entrepreneurship Development Cell, Soft Skill Development Cell and Professional Society Chapters like ISTE, IEI and CSI.

Students' Representation and Engagement in various Extracurricular Committees such as Atharva Culture Program, University Yuva Mohotsavand Art Exhibition

National Social Service (NSS) committee seeks to integrate social responsibility with personality development. These committees are active in organizing several extension activities like Tree Plantations, Blood Donation camps, Swachha Bharat campaign etc.

Involving the students in various administrative bodies has made them more responsible and strengthened their bonding with the institute and this has resulted in many of them coming back to contribute to their alma mater.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

36

File Description	Documents
Report of the event	View File
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions) (Data Template)	View File

5.4 - Alumni Engagement

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

The Alumni Association at our institute is registered on 12-12-2005 having number MHA/1465/05/Solapur. This association is active and is a strong interface between the alumni and the institute. It provides opportunities to the present students to develop in their field of interest using expertise and guidance of successful alumni who have turned out to be reputed professionals and entrepreneurs.

Regular alumni meets are conducted at different places such as Solapur, Pune and Delhi in the country and abroad to bring alumni together.

There is regular representation of alumni on various statutory bodies such as Internal Quality Assurance Cell (IQAC), Board of Studies (BOS), Department advisory board (DAB). Alumni contribute to

curriculum updates and quality assessment of various administrative activities. They also share their knowledge and skills by giving expert talk, guiding students for project work and training students on emerging technologies through webinars sometimes providing collaborative projects with the industries they work in.

They spare time to judge student events and organize special sessions to develop Entrepreneurship skills among students. Some alumni contribute to placement activities.

The feedback given by alumni on various issues helps in taking corrective action for overall development of student, faculty and the institute at large.

File Description	Documents
Paste link for additional information	https://drive.google.com/file/d/1sCtT3AmPV4UvP5ZCqkBzR4yCsAzNRzaJ/view?usp=sharing
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs) E. <1Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

Institute has Vision and Mission in place. On the basis of SWOC analysis, Institute has prepared a strategic plan with necessary objectives and corresponding key activities to be organized to achieve them.

For achieving globally competent graduates and post graduates, global exposure was given to students by training in emerging areas. 1682 students completed EDX certifications, 853 students completed NPTEL certifications, 2 Hackathons were organized involving 250 students' participants by providing necessary mentoring and facilities. To ensure required competency, Faculties completed 98

and students 21 certifications of FDPs/Seminars/workshops/industrial trainings respectively

For producing Doctoral engineers 88 research papers were published out of which 30 Scopus indexed.

For building leadership students campaigned and compeered events such as 2 Symposiums, 4 project competitions, 1 programming contest, 5 Entrepreneurial activities and @ 37 student chapter professional society events.

For modernization, there was use of Virtual labs, effective content preparation for delivery through 1186 videos, Submission and assessment on MOODLE & Google Classroom and Project based learning using recent technology. 5 workshops w.r.t Industrial revolution 4.0 involving automation using IOT, 3D printing and AI/ML were organized.

For growth of society, 21 industry collaborated projects were completed and 16 no of extension activities were carried out.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

Due to the policy of participative management @ 38% of faculties participate in various statutory bodies/committees in various capacities. Activity coordinators independently coordinate various curricular, co-curricular, extracurricular and outreach activities with adequate student representations on bodies/committees.

Professional society student chapter are headed by faculty advisors and has well formulated student's committee and event coordinators. In tune with decentralization policy, the committee finalizes a list of activities for overall development of students during the year and committee is empowered & responsible for everything including planning, organizing & budgeting, using financial liberty/power stipulated by institution.

The Computer Society of India (CSI) organized Hackathons,

Programming contests, workshops and Project competitions in 2020-21, @ 47% students participated. This chapter was awarded best accredited student branch in period 2016-2019 and Best Coordinator for 2016-17.

Indian Society for Technical Education (ISTE) organized events involving Team building & communication, Ideathon and Assembly drawing competition. @ 18% students participated in ISTE chapter was awarded Best Students Chapter in 2016-17. Institute of Engineers, India (IEI) has organized 15 various events .including webinars and Panel discussions. @ 17 % students from the institute participated. This chapter offers scholarships to needy students and is one of the best chapters in Maharashtra.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Institute's strategic objectives and key activities are in place. Due to Covid-19 pandemic the students need to effectively study online as the institutions were closed since March 2020. Thus keeping T-L uninterrupted & effective, accordingly various key activities are carried out to strengthen virtual T-L process.

Content creation:

Institute's Professional Learning Community has focused on e-content creation. 3350 Videos are available to students on Institute YouTube channel, having 36.6K subscribers and many viewers. These are also available on our MOODLE as a part of Leaner centric MOOC(LCM).

Appropriate platform:

After providing formal training in Education Technology to faculties, they are employing instructional strategies such as competitive-collaborative learning, PBL and many more & ICT Tools during content delivery and assessment to make it student centric. MOODLE platform is effectively used for Publishing of Courses and assessments, Feedback, employability enhancement activities.

Assessment tools:

The assessment schedule is predefined in the Academic Calendar and results are in public domain. Students' assessment was in accordance with COs of the course and on cognitive levels of Bloom's taxonomy after due scrutiny. Other assessments modes were LCM.

Inspite of virtual learning it became interactive and participative due to all disruptive innovations used in virtual T-L process.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	View File

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

Institute functioning is well structured, decentralized and monitored by Governing body, an apex body headed by trust Chairman and Principal is secretary. Head of the departments, responsible for the departmental administration, reporting to principal are supported by the Laboratory In-charges, faculties, laboratory assistants and menial staff in the working of Laboratories and various departmental activities. Proper student's representation is ensured on various statutory bodies and committees for effective functioning.

Administration & Accounts are two verticals; lead by Registrar & Finance Officer respectively has well defined structure.

Governance is monitored through statutory bodies/committees, formed as per the norms, namely College Development, Internal Quality Assurance, Standing , Internal Complaints Committee for women, Anti-Ragging , Grievance and Finance Committee Library is the independent entity looked after by library committee headed by faculty in charge and coordinated by librarian. Extra-curricular and co-curricular activities are carried out by various committees, headed by faculties. Training & Placement officer coordinates the activities like employability enhancement, Internship, Training and Placement.

Governance and Policies of the institute such as Strategic

Management including vision mission statement, Code of Conduct, Policies of Deputation of Faculty, Promotional, Maintenance , Delegation of Financial Powers, etc. are transparent, being well disseminated on institute website.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	https://www.witsolapur.org/pdfs/Organisation-Structure.pdf
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

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

6.3 - Faculty Empowerment Strategies

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

Welfare measures for teaching and non-teaching staff

1. Appreciation to faculty and staff for performing good work and completing Ph.D. program.

2. Recognition to outstanding faculty and staff with "Bhauasaheb Gandhi Sevabhavi Puraskar.

3. The facility of Group Medical Insurance, EPF, and Gratuity Fund for regular staff in the college.

4. Availability of financial support through various schemes of 'Employee's co-operative society'. (Pathapedhi)
5. Provision of 'Employee Welfare Fund' Savings Scheme by Credit Co-operative Society.
6. Recognition / Promotions for good work based on PBAS performance and outstanding contribution.
7. "Earn while you learn" scheme for staff, for higher education during service.
8. Extending facilities for higher studies to faculty and staff.
9. Felicitate faculty and staff for completing their higher education and distinguished achievements.
10. Promotion to higher posts for faculty / staff.
11. Opportunities for staff and faculty to upgrade their qualification.
12. Leave type: Casual, Duty, Medical, Earned, study & Maternity leave
13. Birthday celebration.
14. Faculty members are provided with TA and DA for presenting Technical papers at National and International conferences
15. Admission to the wards of faculty and staff on a priority basis
16. Need-based advance against salary for faculty and staff.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

30

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

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

11

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

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

115

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

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

Performance Based Appraisal System is in compliance with the regulations of AICTE and UGC.

Faculty performance is assessed based on the following:

- Teaching - Learning process with disruptive Innovations, E content creations and Student's Feedback
- Contribution to the administrative and developmental activities
- Research and Academic Contributions
- Continuous self-up gradation
- Contribution to Society

Appraisal system implementation steps

- Submission of PBAS form by Faculty
- Scrutiny and assessment of PBAS by committee
- Review by HOD and Principal
- Communication to respective employee and Corrective action if any

The API scores of PBAS are considered as basic requirement for Career Advancement Schemes implemented for faculty.

The faculty not fulfilling the CAS requirements are informed about the shortcomings in their performance and counseled for improvement.

Motivation is provided to all those performing exceedingly well. Those who could not show satisfactory performance are given an opportunity after counseling they are advised to improve.

In spite of support and instructions, if someone is not attempting for improvements, such persons are served with a 'Show cause notice' and asked for their clarification.

Performance based assessment of non-teaching staff is also carried out according to Circular No. CFR-1295/P.K. 36/9513, Dt. 1/2/1996, issued by General Administration Department of Maharashtra State Government

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

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. These annual audited statements are available on institute website.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

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

6.04

File Description	Documents
Annual statements of accounts	View File
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Resource mobilization policy of the institute:

Following are the sources through which funds are mobilized for the institute.

- Students fee collection.
- Providing Testing and consultancy services to society.
- Real time projects funded by various industries/agencies.
- Submission of proposals to various Govt. & non Govt. agencies like AICTE, DST, BCUD, UGC, SERB, IEI, ASHRAE etc. for receipt of grant
- Undertaking various training programs
- Surplus generated through organization of various activities.
- Funds from parent trust

Optimal Utilization:

Optimal Utilization is insured through the following process.

- The requirement is judicially arrived at by taking inputs from the stakeholders (number of pages reduced in journal as per requirement).
- All purchases are done through competitive bidding resulting in least cost of procurement.
- Promoting digital processes (paperless administration)
- In-house maintenance of equipment to maximum extent possible.
- Doing collaborative programs with society leading to minimization of expenditure.
- Our buildings are green and require minimum use of electricity during the day.
- Use of solar panels to minimize the usage of electricity.
- Use of intranet to minimise efforts of menial staff and paper consumption to convey messages.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5 - Internal Quality Assurance System

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

Academic year 2020-21 was facing challenges of COVID-19 and teaching-learning process was carried in on-line mode. In the meeting conducted on 10/08/2020 IQAC decided that during this period, life-long learning skills shall be inculcated through self-learning using Coordinated Student Development model. It was decided to facilitate students an access to various global platforms through tie-ups, including industry collaborations to enhance professional development and to encourage them to take up appropriate courses to earn credits and/or for overall development, in self-learning mode at their pace. Students successfully completed certifications NPTEL, eDx, Infosys-Springboard and Coursera platforms.

Due to these skills, the student's employability enhanced resulting into 41% increase in the number of offers & increase of 30% in average package.

In the same meeting of IQAC, it is recommended that faculty members shall carry out R&D activities through funded & collaborated research by applying to various govt. / non govt. funding schemes, sponsored projects & consultancy and shall publish their research in quality journals & conferences. During 2020-21, faculty submitted more than 20 proposals for seeking grants and received grants from various organizations like The American Society of Heating, Refrigerating and Air-Conditioning Engineers, AICTE, ISTE and PAH Solapur University Solapur. During 2020-21 faculty published total 88 quality research papers.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

Incremental improvements made for the preceding year with regard to quality and post accreditation quality initiatives

Assessment and evaluation of various academic activities and suggestions for improvement in the same is implemented through two tier academic audit system - an internal audit (annually through IQAC members) and external audit (biannually through members outside the institutions and/or from industry). Objective of the audit is to review teaching learning and assessment process. The review of infrastructure and facility is also taken with view to note its adequacy/deficiency, if any so that facilities and infrastructure will assist in proper delivery of teaching learning process.

Following Parameters are reviewed during Academic audit:

1. Students Admissions and quality
2. Faculty Strength and Qualification
3. Infrastructure & Amenities
4. Curriculum
5. Identification of Curriculum Gap & Action Taken
6. Teaching-learning Process
7. Students Assessment
8. Results Analysis & evaluation of COs, POs and PSOs attainment
9. Industry-Institute Interaction

10. Feedback from various stakeholders
11. Overall Student Performance
12. Faculty Development and R&D

Any two examples of institutional reviews and implementation of teaching learning reforms facilitated by the IQAC

1. Quality Initiative 1:Improving Final Year Project Assessment Process

It was observed that assessment process adopted for final year project lacks objective tools and methods and needs improvement.

IQAC designed an exhaustive a 4-stage review and evaluation system for final year Project work using rubric for individual and team performance of the students.

Outcomes:

1. Exhaustive monitoring and assessment process is adopted for evaluation of Project work.
2. Facilitated the individual and team performance assessment of a student.
3. Overall quality improvement of the projects

2. Quality Initiative 2: Use of virtual lab facility

It was observed that the student at large do not have any access to the laboratories in the institute during Covid -19 pandemic period.

IQAC recommended extensive use of different virtual platforms like virtual lab, simulators and virtual programming labs for students.

IQAC suggested for special slot in the time table for Virtual Laboratories (VLAB) for effective Teaching-Learning during laboratory sessions. Objective of implementing VLAB in the time table is to improve the quality of education as an innovative form for distant learning during COVID-19 pandemic. Total 379 experiments from VLAB were conducted online through VLAB during AY2020-21.

<https://drive.google.com/file/d/1ng42yXdZlHVYxxLcfQnxmltQVCiI0Ixa/view?usp=sharing>

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://www.witsolapur.org/pdfs/annual-report-2020-21.pdf
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Institute is well aware that without gender equity, the nation cannot progress. Keeping this in mind, the following initiatives have been taken for attainment of gender equity:

- To provide an equal opportunity to women in all areas in order to have their own policies: Overall 28% of employees are ladies. @21% of employees who are in administration are ladies.
- To undertake activities for the development of women and

provide necessary facilities and security: This year, Webinar on Yoga Asana to Boost Immunity for Women and health awareness was conducted. Facilities like common rooms with first aid kit, sanitary napkin vending & incinerator machines are provided. A separate girl's cell organizes activities for girls on skin care, HB problem, self-defence, fitness and provides counseling on personal hygiene. The Institute has constituted a Women's grievance redressal cell to address the issues of girls and women.

- Encourage participation of all students equally in curricular, co-curricular & extra-curricular activities: Overall 51% of participants in various activities are girls
- Motivate women for higher education and research: @5% of lady faculty completed Ph.D. and 7% are pursuing.
- Our Institute has bagged AICTE Lilawati Award of 1 Lakh Rupee in the category of "Women health"

File Description	Documents
Annual gender sensitization action plan	https://www.witsolapur.org/pdfs/gender-sensitization-action-plan.pdf
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://www.witsolapur.org/pdfs/facilities-for-women.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

B. Any 3 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

In the campus, solid waste zones are prepared for the smart measurements/weighing techniques. All types of wastes are measured/ weighed as per their technical criteria. Solid biodegradable waste generated in college campus and college canteen is recycled in 'Vermicomposting Unit'. This is the most successful project and large quantities of high quality vermicompost have been produced for use within the campus. Garbage consists of Garden / Horticultural waste, Mess/ Canteen, Paper. Average quantity of vermicompost produced is 2000 kg/year. E- Waste produced from various departments are segregated and sent to E- waste recycling. Rubbish produced from the Institute is outsourced to Municipal Corporation, Solapur.

Waste water namely Grey water generated from Boys Hostel (mainly bathroom wastewater) and guest house is treated using anaerobic wastewater Treatment plant. An anaerobic filter is a fixed-bed biological reactor with one or more filtration chambers in series. As waste water passes through the filter, particles are trapped and organic matter is degraded by the active biomass which is attached to the surface of the filter material. Treated water is used for secondary usage like gardening purposes.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

B. Any 3 of the above

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

A. Any 4 or all of the above

5.

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	View File
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

Institute always takes efforts to provide an inclusive environment for students and staff to facilitate development of tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Institute celebrates the different festivals with joy and enthusiasm. Various activities are

organized through NSS such as expert lectures on women health, Yoga, environmental issues, Marathi Bhasha Samvardhan Pandharwada, etc. Students are encouraged to write articles and participate in competitions in different regional languages. Mandatory course on Environment Science is added in curriculum. Institute render service to society by providing counseling for Engineering aspirants, participating in Unnat Maharashtra Abhiyaan, through our PLC YouTube channel of educational videos, Testing and Consultancy, etc. In this pandemic, institute offered helping hand to society by providing financial aid through COVID relief fund, Hostel Campus for Quarantine centers. Faculty member rendered their services to many Hospitals during COVID for the oxygen supply and fire audit and along with students worked as frontline COVID warriors. Institute has permitted students to pay admission fees in installment to support the parents to cope up with the COVID financial implications. Institute plays a role of a facilitator to help students to get scholarships through government and private agencies and organizations.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	View File

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Through various activities, Institute sensitizes the students and the employees of the institution to the constitutional obligations about values, rights, duties, and responsibilities of citizens which enables them to conduct as a responsible citizen. This year due to COVID-19 pandemic, the events were conducted in online mode. On the occasion of 'Constitution Day' and 'National Voter's Day', an awareness program was arranged through the NSS cell to educate about constitutional and voter rights. Many faculties attended online workshops on 'Universal Human Values' being organized by AICTE, New Delhi. Students' induction programs are conducted to create the right understanding about human beings, family, society, environment and civilization which acilitates the students to improve their life skills, employability and global competence significantly. Sessions were arranged during student's induction programs by faculty and external experts to inculcate the values necessary to render students into responsible citizens. In the curriculum too, value

added audit course of 'Democracy' and HSS course of 'Professional

Ethics and Human Values' is included to create awareness about rights and duties and inculcate professional ethics among students. Students showcase their professional ethics and etiquettes through their behavior in classrooms, in various competitions, during team work, while working on projects, preparation of reports, presentation, etc.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://www.witsolapur.org/pdfs/activities-that-inculcate-values.pdf
Any other relevant information	https://drive.google.com/file/d/16PMi7Hnl6ze_d7OR6_GZFV04es9pXW-3/view?usp=sharing

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff

B. Any 3 of the above

4.

Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The institute takes sincere efforts in celebrating the national and

international commemorative days, events and festivals throughout the year. Due to COVID-19 pandemic situation this year all the events were celebrated in online mode. Independence Day is celebrated on 15th August 2020. 'Gandhi Jayanti' and 'Lal Bahadur Shastri Jayanti' is celebrated on 2nd October 2020. 'Sardar Vallabhbhai Patel Jayanti' was celebrated on 31st Oct. 2020. On this occasion students and staff took the 'Ekta Oath'. 'Constitution Day' was celebrated on 26th November 2020 and took the 'Constitution Oath'. Voter awareness programme was organized from 23rd Jan. to 25th Jan. 2021 on the occasion of 'National Voters Day' by organizing poster making and elocution competition. 'Netaji Subhash Chandra Bose Jayanti' was celebrated as Parakram Divas on 23rd Jan. 2021. National Republic Day is celebrated on 26th January 2020. 'Marathi Bhasha Samvardhan Pandharwada', is celebrated on 27th Jan. 2021, wherein students presented various Marathi Poems and stories. 'World Wetland Day' was celebrated on 2nd Feb. 2021 wherein students participated in Quiz and Poster Making Competition. 'International Women's Day' was celebrated on 8th March 2021. International Yoga Day was celebrated on 21th June 2021 with great enthusiasm under the guidance of Patanjali Yogapeeth.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

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

Best Practice 1

1. Title of the Practice:

Disruptive Innovations in Teaching-Learning (T-L)

2. Objectives of the Practice

To facilitate disruptive innovations in T-L to continuously enhance T-L and to facilitate students learn anywhere, any times and many times.

3. The Context

Covid-19 pressed education sector to switch from physical to online teaching. The primary objective was to ensure uninterrupted & effective T-L through online mode.

4. The Practice

Institute is practicing disruptive innovations which include implementation of Learner Centric MOOCs(LCM) using e-contents generated @e-Learning-Center, Blended T-L while employing ICT & instructional strategies, use of LMS: MOODLE

Every faculty member is creating 5 videos and at least one LCM every semester. Also @15 instructional strategies & 10 ICT Tools are employed during content delivery.

5. Evidence of Success

- @3500 videos uploaded on YouTube Channel are found useful across the globe. Subscribers are 27500 and views are 4120178.
- Inculcation of blended T-L resulted into smoothly shifting overnight from physical to an online mode during COVID-19 pandemic.
- 52 research publications on ET and various awards

6. Problems Encountered and Resources Required

- Training on ET, Regular follow-up & facilitation are essential factors

Resources required

- Digital Platform for T-L, recording facility supported by expertise, Adequate Internet Facility

7. Notes

Blended T-L is the need of the day. Especially in COVID-19 pandemic, all have been shifted to virtual/online platform, where effective T-L has become a challenging task. Such innovations will facilitate all the stakeholders in online/offline mode

Best Practice 2

1. Title of the Practice:

Inculcating life-long learning through self-learning using Coordinated Student Development (CSD) model

2. Objectives of the Practice

- To inculcate lifelong learning through a CSD model
- To facilitate an access to various global platforms
- To encourage students to take up appropriate courses in self-learning mode at their pace.

3.The Context

Facilitation of various MOOC platforms will enable to accommodate the preferences of an individual learner to pursue their interest for and beyond the course curriculum. Our CSD model has been instrumental in inculcating lifelong learning through self-learning leading to successful completion of MOOC and. in overcoming the constraints of COVID-19 as students are already used to technology enabled T-L (learning remotely).

4.The Practice

It is an observation that generally in normal circumstance MOOC implementation is one way, leading to low success rate. With an objective to enhance success rate and to facilitate the learning process to be a joyous one, Institute has developed the CSD model which aims at inculcating lifelong learning through continuous self-learning with commendable success rate.

5. Evidence of Success

The success rate of MOOC implementation at the institute level is @90% which is very much higher as compared to the success rates observed globally. The student's employability enhanced resulting into 41% increase in the number of offers and 30% increase in the average package.

6. Problems Encountered and Resources Required

Problems Encountered

At student end:

- Inadequate Mobile Data plan
- Poor Internet connectivity/appropriate hardware.
- Delayed Peer-Review assignments response during course

completion

Resources required

1. Desktop/Laptop/Tab/Smartphone with audio and Internet
2. Collaborations to access online-platforms
3. Human Resources as per CSD model.

7. Notes

The success rate of MOOC implementation was commendable and appreciated by respective platforms which is due to our CSD model. For ensured success, this proven model can be adopted by other institutes.

File Description	Documents
Best practices in the Institutional website	https://witsolapur.org/bestpractices.php
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Mutually Beneficial Industry-Institute Collaboration: Institute has a well structured Industry Institute Partnership Cell (IIPC) for engaging collaborative activities with Industry. Industry experts are invited to represent industry on our various governing systems. This provides an opportunity to seek suggestions on various areas of improvement. Recommendations of industry experts are implemented to the maximum possible extent.

Faculties and students undertake various courses offered by industries like IBM, Amazon, Microsoft and Infosys, available on various platforms like EDx, Coursera, Infosys springboard, Internshala and NPTEL. Total no. of course certifications of varying durations are more than 3000.

The institute continues to undertake industry-sponsored/collaborated

research projects. Overall, 21 industry collaborated projects are completed. The institute has membership in professional societies such as IE(I), CSI, SAE and ASHRAE. Through various collaborative activities, we actively participate in various activities , as well students register & participate in various competitions and conferences.

A professional platform named HackerEarth is widely used in competitive programming.. Faculty and students have successfully completed the certification on Google Cloud Ready programme.. The institute has an MOU with RedHat for training in web development, web servers, network security and certification. This year Institute entered into MOU with National Highway Authority of India. In all institutehas entered into 23active MoUs.

Faculty members offer testing and consultancy services to various organizations on matters related core Engineering, IT & various quality initiatives generating a revenue of Rs 20,65,560/- through 112 projects.

As an impact of all these, institute received a research grant of 4000USD from ASHRAE. Institute offered consultancy services generating a revenue Rs. 20,65,560/-. Five faculties received certificate of appreciation from Texas Instrument, USA. Institute is recipient of certificate of excellence from Infosys. Institute is ranked as a top performer by Tata Technologies as part of their distance ready engineer program. All our professional societies have been recognized, being recipient of awards.

Companies like Infosys, Mindtree, Paytm, Persistent Systems, Tata Consultancy Services,Wipro ,Tech Mahindra, Accenture, Capgemini, Celebal Technologies, Cognizant, BYJUS, Dassault System's, Atlas Copco (India) Pvt. Ltd., axcess.io, Burckhardt Compression (India), Busch Manufacturing India, Faurecia, Galaxe Solutions, KSB Pumps Ltd., Magna Automotive India, Michelin India Technology Center, Triveni Turbines Ltd., Estimators Online provide job opportunity & internship to students. Total 58 companies visited campus for Recruitment Drives and students have received 483 job offers with highest annual package of Rs. 10 Lakh.

Following is the list of Industry-Institute collaborated activities:

- Industry expert sessions: 51
- Industrial Visits: 12
- Internship completed by students: 1548
- Visiting Faculty from industry:17

- Faculty training by industry:124
- Faculty provided training to industry persons:6
- Industry persons attended Executive programme organized by institute:5
- Industry collaborated Projects:21

NAAC

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

Being an affiliated institution, we follow the course curriculum prescribed by PAH Solapur University, Solapur (PAHSUS), which is continuously revised. The institute has its well-defined process to plan and execute activities for effective implementation of the curriculum delivery. On the basis of Institution academic calendar, department and teachers prepare their teaching/activity plans respectively for every theory and practical subject. On the basis of stake holders' feedback & PO/PSO attainment, curriculum gap is identified and delivered through teaching-learning or self learning mode as content beyond curriculum. An appropriate action plan for non-attained POs/PSOs, if any is prepared & implemented to ensure attainment. teaching feedback from students is also considered for effective delivery of contents. Various skill development and value-addition courses are offered for students. Faculties use various active learning strategies to enhance the critical thinking and problem-solving ability of the students. Visits, workshops, training sessions are arranged as per requirement of the curriculum to enhance students learning. 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)".

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

An academic calendar is prepared at institute level to plan the curricular, co-curricular and extracurricular activities and is published well before the commencement of the semester. All components related to different stakeholders like alumni and

parents meet, industry interactions, etc. are also considered. Department Head in consultation with various activity in-charges prepares academic calendar for the department in sync with institute academic calendar. Academic calendar includes a schedule for start and end of teaching as well as laboratory work. In Semester Evaluation (ISE) and Internal Continuous Assessment (ICA) forms an integral part of the 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, industrial tours and visits, lectures by industry experts, programs by student's associations are considered in the academic calendar. All activities related to assessment and examinations are strictly carried out in accordance with the schedule indicated in the academic calendar. Variation, if any, along with the reason becomes part of the 'Executed Academic Calendar", prepared after completion of the semester. The reasons for variation, if any, are analyzed and are considered input for improving the academic calendar of the next cycle.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

A. All of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

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

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

10

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

5

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

658

File Description	Documents
Any additional information	No File Uploaded
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

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

The institute integrates Cross-cutting issues relevant to Environment & Sustainability, Human Values and Professional Ethics through about 10 courses in the Curriculum and one 'Honors Degree' in 'Sustainable Engineering'.

'Induction program' for UG students develops awareness, sensitivity, and understanding of the self, and the society at large. The course of 'Universal Human Values' develops a holistic perspective towards life and profession and emphasizes 'value-based living'. The course on 'Environmental studies' emphasizes on need pollution-free environment and the need of protecting & preserving natural resources such water bodies, forests etc. Courses on Economics, IPR, Sociology, Stress & Coping, Professional Ethics & Human Values cover different aspects of cross-cutting issues.

Institute is keen on sensitizing 'Gender equity', by providing opportunities through various relevant activities to lady staff and students. Fearless environment is well insured to women through CCTVs, Security personnel, and mentoring. Girl students have representation on various committees and activities. Special efforts are taken to enlighten on various 'Health issues in Ladies', 'Personal Health Care', 'Food and Nutrition', and 'Stress Management for Working Women', etc. Yoga & Health club, Gymnasium facilities are also provided. A special 'Internal complaint committee' for girls, lady faculties, and staff takes into consideration their grievances if any.

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

18

File Description	Documents
Any additional information	No File Uploaded
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	View File
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

1276

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution

A. All of the above

from the following stakeholders Students Teachers Employers Alumni	
File Description	Documents
URL for stakeholder feedback report	https://www.witsolapur.org/pdfs/Feedback-Report.pdf
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	No File Uploaded
1.4.2 - Feedback process of the Institution may be classified as follows	A. Feedback collected, analyzed and action taken and feedback available on website
File Description	Documents
Upload any additional information	No File Uploaded
URL for feedback report	https://www.witsolapur.org/pdfs/Feedback-Report.pdf
TEACHING-LEARNING AND EVALUATION	
2.1 - Student Enrollment and Profile	
2.1.1 - Enrolment Number Number of students admitted during the year	
2.1.1.1 - Number of students admitted during the year	
641	
File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File
2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)	
2.1.2.1 - Number of actual students admitted from the reserved categories during the year	

264

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

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

A student is continuously assessed (CIE) during theory & laboratory sessions through classroom interactions, attentiveness, willingness to participate actively in Q&A session/discussions, student learning ability, etc. Students learning levels are appraised through In-Semester Evaluations (ISE), Internal continuous assessment (ICA). On the basis of these CIE, student is identified either as slow learner, if student's performance is up to 50% , or as advanced learner.

Following facilitations are provided to slow learners till they become advance learner:

- Make-up Classes, Remedial/Revision classes/lab sessions
- More Assignments, Subjective & Objective Tests
- Retest for desirous
- Faculty generated Course Videos are provided to facilitate students learning by watching the videos anywhere, any time and many times

The programs for advance learner are:

- Guidance for competitive exam for higher studies and for employment and Organization of various events at the national level technical symposium at the institute to showcase their leadership and interact with outside counterparts.
- Encouraging for outside participation through National/International Technical Events
- Various co-curricular and extra-curricular events through, various students professional society activities (IEI, CSI, ISTE, ED Cell, SSDC, TESA, MESA, CESA)
- Self-learning through online certification courses (NPTEL, Infosys Headstart, edX, MOOC, Spoken-

tutorial, Internshala etc.) Proctored mentoring system is in place to support students in all circumstances.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

Number of Students	Number of Teachers
2423	160

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

To facilitate disruptive innovations in T-L process, Institute has established Professional Learning Community (PLC), which focuses on e-content creation, continuous use of instructional strategies & ICT tools during course delivery, use of learning management system. At the commencement of semester, every faculty member submits course teaching plan along with ET Activity planning which includes name of topics & details of instructional strategies and/or ICT tools to be employed, Schedule for activity etc. Some of the student centric methods used are: Participative Learning: Gamification, Treasure Hunt, Role Play, Jigsaws, Visualization (Animation/Simulation/Live Coding etc.), Flipped-Classroom, Think-Pair-Share, Pair Programming, Peer Instruction.

Problem/Project Based Learning (PBL) includes open ended quizzes, competitive and collaborative learning to design and develop solutions to given problem statements.

Experiential learning is practiced through hands-on sessions, industrial/vocational training, Hackathons, Mini-projects, Virtual-labs to build fundamentals and core competency.

On an average 15 instructional strategies are employed in every

semester leading to enhancement in student's learning. Substantial ET practices are emerging as some of the best practices after due iterations.

Because of all these efforts of blended T-L, during COVID-19 pandemic, we could smoothly shift overnight from physical classroom mode of teaching to an online mode of teaching.

File Description	Documents
Upload any additional information	View File
Link for additional information	https://drive.google.com/file/d/1qE4mgASaUhKeghcomC5kOvDkAP3mpSDq/view?usp=sharing

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Nearly all faculty members took formal training in Education Technology (ET). They are employing instructional strategies & ICT Tools such as Socrative, Kahoot, ModelSim, Selenium, LogicSim, Weka, Parsing emulator, JFLAP, Visualization Tutor, Tableau, Simulation Tools etc. during content delivery and assessment. Thus, the conventional teaching learning process is strengthened by blending ET practices.

They are using own created e-contents as well as available resources such as NPTEL, Vlab, Spoken Tutorial, other MOOCs to cover the content of curriculum and beyond.

In addition to conventional ways of assessment, different ICT tools are employed for effectiveness and immediate feedback on content delivery. Tools such as Socrative, Kahoot etc. are used for this purpose.

All students and faculty members are enrolled on two MOODLE servers which are accessible remotely. MOODLE platform is effectively used for Publishing of Courses and their assessments, Feedback on T-L process, employability enhancement activities etc. Virtual Programming Lab (VPL) on MOODLE is effectively used for all programming languages benefitting both students and faculty.

Virtual Lab experiments are used to conduct laboratory experiments virtually using animation/simulation for various

courses .

On an average 10 ICT tools are employed in Teaching-Learning process in every semester into enhancement in student's learning.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

2.3.3.1 - Number of mentors

131

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

160

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality /

D.Sc. / D.Litt. during the year (consider only highest degree for count)**2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year**

35

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)**2.4.3.1 - Total experience of full-time teachers**

1838

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The assessment schedule is predefined in the Academic Calendar and adherence is more than 90%. Generally the CIE assessment module is comprised of 3 ISE tests and ICA according to the structure. ICA includes students' participation, performance and quality of assignments etc. Desirous/Aggrieved students are provided with an opportunity for improvement.

The question papers prepared by subject teachers are scrutinized w.r.t. mapping of questions to COs and cognitive levels of Bloom's taxonomy and appropriateness by experts before the test. Assessment results are in public domain.

Other assessment modes are: viva-voce, case studies, presentations, design sheet submission, e-submissions etc. Various platforms adopted for other assessment are Google Forms, Google Classroom, Virtual Programming Lab (VPL) on MOODLE and Learner Centric MOOC (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 on inculcating the habit of self learning amongst students and hence due weightage for online certification courses through NPTEL/eDX/Coursera/Infosys Springboard etc. is given. There is inbuilt robust mechanism for redressal of the grievances at Institute and department level.

File Description	Documents
Any additional information	View File
Link for additional information	Nil

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

Continuous Internal Evaluation (CIE) which weighs @45% is comprised of In-semester Evaluation (ISE) for theory courses and Internal Continuous Evaluation (ICA) for Laboratory, courses. CIE is robust and transparent due to the features: well-defined course & assessment schedule, evaluation rubrics, opportunity grievance, addressal and redressal for aggrieved students, availability of assessment results in public domain, students' performance are communicated in stipulated time, appropriate opportunities for slow and advanced learners.

Lower cognitive levels are well addressed through ISE and ESE whereas higher cognitive levels are assessed through Mini/Major/course Projects, Internships etc. Course faculty through CIE assesses students to identify slow and advanced learners. Other assessment modes are assignments, seminar, quizzes and other ICT tools.

Assessment of ICA is on the basis of set of experiments/assignments. The poor performing students are given opportunity to improve their performance though additional practice/test. Rubric for ICA is comprised of: regularity & pro-activeness, performance and quality of assignments.

Aggrieved students contact teacher and put forth his grievance. Teacher redoes the exercise, even then if a student is still aggrieved, they approach departmental committee.

Because of robust and ever evolving system such grievances are negligible. However, Students feedback forms a basis for improvement of the system.

File Description	Documents
Any additional information	View File
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

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

While implementing outcome-based education (OBE) since 2011, institute provides the formal training to faculty and staff regularly by arranging workshops making them competent to implement OBE. Even some of the teachers undergo the courses on OBE. In course curriculum COs are well defined. CAM is prepared for all courses.

The curriculum which also contains PEOs, POs and PSOs along with COs for all the courses is well disseminated through the following modes to students.

- Websites of university and institute (www.witsolapur.org).
- At the commencement of semester, teachers give in depth knowledge about COs. The COs is displayed in the laboratories.
- PEOs, POs and PSOs of the programme are widely displayed at all prominent places of department such as HOD cabins, Notice boards, Classrooms, Laboratories and Newsletters, Lab manuals etc.
- Dissemination to the external stakeholders
 - Department Advisory Board (DAB) meeting
 - Parents meeting
 - Alumni meeting, Alumni Visit/interaction
 - Campus drive, training sessions

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil
Upload COs for all Programmes (exemplars from Glossary)	View File

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

For Outcome based Assessment, appropriate assessment methods and tools are used after reviewing by the DAB to improve teaching-learning on a continuous basis.

At the commencement of semester, teacher prepares CO assessment plan. As well the course outcomes are mapped with POs and PSOs on the scale of 1(low), 2(moderate) and 3(high).

The Tools used for assessing CO attainment are: Internal Assessment Tool(IAT) and End Semester Examination Tool(ESET), each with weightage of 50%.

IAT is a Formative Assessment and based upon In-Semester Examination (ISE) and Internal Continuous Assessment(ICA). ESET consists of End Semester Examination(ESE) and Practical & Oral Examination(POE). The question paper is well mapped with all COs.

Attainment levels are defined through Targets which are in terms of percentage of maximum marks for which a relevant CO is assessed. It is ensured that each CO is adequately (and separately) assessed using various methods of IAT.

The total attainment of POs and PSOs is calculated using Direct Tool and Indirect Tools in the proportion of 80:20 respectively. Direct attainment level of a PO/PSO is computed by taking the average across all courses addressing that PO/PSO. Indirect attainment is calculated through Course Outcome Survey and Program Exit Survey.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil

2.6.3 - Pass percentage of Students during the year**2.6.3.1 - Total number of final year students who passed the university examination during the year****632**

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	https://drive.google.com/file/d/1AnwDHdmFTc7YAOfl08JlY3Ip9ZCAZmjU/view?usp=sharing

2.7 - Student Satisfaction Survey**2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)**

<https://witsolapur.org/pdfs/student-satisfaction-survey-20-21.pdf>

RESEARCH, INNOVATIONS AND EXTENSION**3.1 - Resource Mobilization for Research****3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)****3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)****17.235**

File Description	Documents
Any additional information	View File
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)**3.1.2.1 - Number of teachers recognized as research guides**

13

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year**3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year**

04

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	View File
Paste link to funding agency website	https://su.digitaluniversity.ac/ , http://www.sus.ac.in/ , https://www.ashrae.org/communities/student-zone/scholarships-and-grants/about-undergraduate-program-equipment-grants .

3.2 - Innovation Ecosystem

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

Institution has established Institution's Innovation Council (IIC), with representation of Industry Experts, Alumni Entrepreneurs, Government Officers, Faculties & students.

To facilitate training to budding entrepreneurs, a coordinator and six faculty members trained by MHRD as Innovation Ambassadors in Phase I. are at the helm of the affairs.

Well disseminated Innovation & Startup Policy of the institute is in public domain along with action for the year 2021-22.

Facilitation & promotion to students & faculties for innovations is done by organizing various programmes which include hackathons, idea pitching events, innovative project competitions along with mentoring to become successful innovators & entrepreneurs. Abilities are assessed through various competitions. Eighteen courses related to innovation, IPR & entrepreneurship are offered.

Eight number of Centre of Excellence with advanced tools & equipments are made available to all. Entrepreneurship Development Cell & IPR-Technology Transfer Cell is assisting students in their journey towards startup.

Facilities in the form of shared office/rooms, labs, equipments, computational facility along with mentoring & guidance are provided. We are connecting the students to alumni entrepreneur's network for mentoring & fund raising.

Students participate in SIH & other Innovation & Entrepreneurship related events within and outside the institution.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

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

30

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards	
3.3.1 - Number of Ph.Ds registered per eligible teacher during the year	
3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year	
1	
File Description	Documents
URL to the research page on HEI website	https://witsolapur.org/research.php
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File
3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year	
3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year	
45	
File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File
3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year	
3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year	
43	
File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

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

To sensitize the students and common people on the social issues, various extension activities listed below are organized in the neighborhood communities.

1. Street plays
2. Rallies
3. Competitions
4. Webinars/Seminars etc.

Swachha Bharat Abhiyan initiatives inculcate habits involving importance of cleanliness in the stakeholders of society including school children, villagers & local body representatives. Students planted different saplings under tree plantation drives. These activities were organized in collaboration with SMC, Solapur and Kirloskar Vasundhara.

Voter awareness campaign was organized to make students aware of rights & importance of participating in the electoral process. Students organized programs like new voter registration drives and street plays to encourage common people for the active participation in the election process for a transparent democratic nation to be created.

During the pandemic, through different social media platforms students raised the awareness regarding vaccination, importance of Covid appropriate norms and spread awareness about blood donation as a major community responsibility.

Students & faculties participated in different yoga and meditation sessions which helped them to understand the role they play in maintaining physical as well as mental health.

More than 100 students participated to conduct these activities, which helped them to build confidence and leadership skills.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

50

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

14

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in

collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

1453

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

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

36

File Description	Documents
e-copies of related Document	View File
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

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

23

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The Institute campus is spread over 22.31acres, as against AICTE-requirement of 7.5acres. Overall Carpet area of the Institute is 20081sq.m., against AICTE-requirement of 10387sq.m.

Instructional area is 13856sq.m.(AICTE-requirement:7604sq.m). Central library is of 1457.65sq.m area, against AICTE-requirement of 566sq.m. and workshop of 627sq.m. as against AICTE-requirement of 400sq.m.

40 well-equipped (LCD projector, laptops, speakers, and internet connectivity), well-ventilated classrooms with total area of 3084.05sq.m., as against AICTE-requirement of 33. Additionally tutorial rooms are provided.

The Institute has 73 well-equipped laboratories with total area of 6781.77sq.m. as against AICTE-requirement of 68, out of which, some are supported by industry/statutory bodies.

Two computer centers are provided, admeasuring total 338sq.m. against required 300sq.m. There are 721computers and 40 printers available, against AICTE-requirement of 400 and 20 respectively. 09 servers, 60 manageable, 07 POE manageable switches, 34 Wi-Fi Access points, Sophas-XG330 Firewall, 500Mbps Internet bandwidth, 55 application and 06 system software are available.

Two ICT-enabled Seminar halls, with area of 526.21sq.m.as against AICTE-requirement of 01 with area 132sq.m.

Institute established e-Learning Centre for e-content generation

which is uploaded on Institute YouTube Channel.

MOODLE, BodhiTree are used as LMS. @10 ICT tools are used for content delivery and assessment. G-Suite is used effectively for T-L.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/10ZQe6VBkyGCIXDhBO112iG6hvhaZQwMR/view?usp=sharing

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

The Institute has a balanced environment of academic, cultural, and sports activities for students' overall personality development. Play fields admeasuring 42,199 square-meter are available on campus where the outdoor sport grounds including a Cricket field, Hockey field, Football field, Kho-Kho Court, Kabaddi Court, Tennis Court, Volleyball Court, BasketBall Court, Handball Court, and 8 lane, 400-meter running tracks are existing. There are also well-equipped indoor chess, carom, and table tennis courts.

Additionally Badminton court at Bhagat Singh Market, Markandeya Swimming Pool, Shree Health Club, Officers club for Wrestling, Gymnasium, Body Building, and Weightlifting are made available to students.

There is a spacious hall on campus for Pranayama and Yoga for students and faculty. Auditorium of area 324.0 square metres with a seating capacity of 500 persons is available. There is a 537.80 square-meter open-air theatre for cultural activities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/11PhoxWrcPK0k-jOEAVbeTCP1-OTE0qyF/view?usp=sharing

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart

class, LMS, etc.

42

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

193.06

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

4.2 - Library as a Learning Resource

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

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

Data requirement for year: Upload a description of library with,

- Name of ILMS software : 1) Lib-Man : 2010 2) Koha : 2020
- Nature of automation (fully or partially) = Fully Automated
- Version 1.0 (Lib-Man), 16.04 (KOHA)
- Year of Automation: 2010

Response :

- **Name of the ILMS software: LIB-MAN (Library Management System)**

The library has an Online Public Access Catalogue (OPAC) is accessible in campus. Faculty members and students can access it by giving author and title details.

- **Nature of automation (fully or partially): Fully Automated**

The library is fully automated through LIB-MAN Software. The book circulation is registered based on students bar coded identity card and barcode on books. 1 TSC bar Code Printer and 4 Laser bar code scanner devices are available to make books issue-return process easy and accurate.

Description of Library:

The library is the heart of all academic activities of the Institute. Students are motivated to make the best use of library facilities to promote affinity towards reading and learning which are vital for the holistic development of the students. The library extends vital support to the academic and research needs of the college by providing updated and comprehensive collection of reading material.

(a) Details of library facility

Total area of Library : 1262.14 sq.mts

Total Seating Capacity : 265

Working Hours : All working days: 8.00 am to 8.30 pm

Academic weekend: 10.00 am to 6.15 pm

Examination period 8.00 am to 10.00pm

(b) Details of library holdings:

I. Central Library Books:

- Book Titles : 20501
- Volumes : 60466
- Journal : 83
- Ph.D. Dissertations Thesis : 25
- PG Thesis : 410

II. Department library Books:

- Book Titles 1561
- Volumes 3536

(c) Initiatives to render the library services to students.

- Institutes central library fully satisfies student's requirement of textbooks as per AICTE norms. Text books & reference books prescribed in the syllabus are provided in sufficient volumes. Apart from Text books on regular curriculum, Library contains some value education books, books for GATE and competitive examinations.
- The library comprises of sections like Digital library, dedicated reference section, current journal section, book issue/return section, periodicals section. A Separate space is reserved for faculty and PG students.
- 25 Computer terminals with internet connectivity are available to the students for accessing e learning resources.
- Spacious and well-furnished space with ergonomic consideration is allocated for reading section in the library.
- All the books are arranged subject-wise according to Dewey Decimal Classification (DDC) number for easy retrieval of books.
- To identify and to minimize the theft cases CCTV cameras are installed in the reading and reference section.

Online library portal (<http://witsolapur.digimat.in/>) is made through which student and staff can access e-learning resources such as NPTEL video courses`

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	https://drive.google.com/file/d/17dKcVhE6eNTsAHXRj-0mhHw6CowugW40/view?usp=sharing

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

A. Any 4 or more of the above

File Description	Documents
Upload any additional information	No File Uploaded
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

25.02

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

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

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

23.76

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

Institute has a campus wide networking provided to all the buildings through structured cabling, Wi-Fi and client-server architecture. The continuous scaling up depending upon usage is done by increasing numbers of manageable switches and VLANs. We have added L-2 & L-3 switches this year and as on date, there are 56 L2 and four L3 manageable switches. Laboratory wise Virtual LANs are created. Two servers namely Bodhi-Tree and Oracle are added to seven existing servers.

Entire hostel campus is Wi-Fi enabled and connectivity is through P2P. Wi-Fi zones are created in institute campus depending upon their usability. .

Institute continuously keeps on upgrading the internet bandwidth, upgraded to 500 Mbps from 220Mbps this year. Security is ensured through upgraded Sophos(XG-330) firewall and e-Scan Antivirus.

Institute has deployed Learning Management System (LMS) MOODLE on two MOODLE servers. Initially these servers were accessible within campus and now they are accessible even from outside campus, to students and faculties.

Legal licensing is taken care through Microsoft Campus agreement and various perpetual licenses. Total 55 legal application software are available.

In all 700 computers/laptops are functioning out of which 75 are recently added AIOs for proctored examination. Annual cost incurred on upgradation is @20lakhs.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Number of Computers

721

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure**4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)****4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)**

528.01

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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

Institute ensures optimal allocation and utilization of the available financial recourses for maintenance of various facilities through regular meetings with stakeholders. The budget allocation is factual, as it is done department-wise, leading to

highest utilization of allocated budget.

1. Laboratory:

- The Laboratories are regularly maintained by the faculty In-charge of lab
- Preventive maintenance is carried in-house and record is documented
- Equipments are maintained properly and serviced periodically.
- Institute follows defined Upgradation off Policy of equipment.

2. Library:

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

4. Computers Networking:

All necessary software are installed and maintained by Laboratory assistant. Regular maintenance work is carried through Institute level maintenance cell. In case of major break down, external agencies are deployed.

5. Classrooms:

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

6. Additionally:

Regular cleaning of water tanks, water purifiers, garbage disposal, pest control, landscaping and maintenance of lawns, Sanitation of every facility is carried out every week in the pandemic

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/1wiDS_txxgPkjmc3wux4_ulyz-NSRpioX/view?usp=sharing

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

1783

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

57

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File
5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills	A. All of the above
File Description	Documents
Link to Institutional website	www.witsolapur.org/studentdevelopmentcells.php
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File
5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
695	
5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
695	
File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File
5.1.5 - The Institution has a transparent	A. All of the above

mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

358

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

20

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	No File Uploaded
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

24

File Description	Documents
Upload supporting data for the same	View File
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

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

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

10

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

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

The Institute encourages student representatives to participate/contribute in numerous decision-making, academic, and administrative committees, facilitating them to beneficiary for overall development with favourable academic environment.

Students' representation in Administrative & Academic College Committees such as College Development Committee, Internal Quality assurance Cell (IQAC), Student Council, Anti-ragging Committee, Sports Committee and Grievance Redressal Committee.

Students' Representation and Engagement in various Co-Curricular activities like National Level Technical Symposium: WITChar, WITECH, Acceleration, Engineer's Week Celebration, Entrepreneurship Development Cell, Soft Skill Development Cell and Professional Society Chapters like ISTE, IEI and CSI.

Students' Representation and Engagement in various Extracurricular Committees such as Atharva Culture Program, University Yuva Mohotsavand Art Exhibition

National Social Service (NSS) committee seeks to integrate social responsibility with personality development. These committees are active in organizing several extension activities like Tree Plantations, Blood Donation camps, Swachha Bharat campaign etc.

Involving the students in various administrative bodies has made them more responsible and strengthened their bonding with the institute and this has resulted in many of them coming back to contribute to their alma mater.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

36

File Description	Documents
Report of the event	View File
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

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

The Alumni Association at our institute is registered on 12-12-2005 having number MHA/1465/05/Solapur. This association is active and is a strong interface between the alumni and the institute. It provides opportunities to the present students to develop in their field of interest using expertise and guidance of successful alumni who have turned out to be reputed professionals and entrepreneurs.

Regular alumni meets are conducted at different places such as Solapur, Pune and Delhi in the country and abroad to bring alumni together.

There is regular representation of alumni on various statutory bodies such as Internal Quality Assurance Cell (IQAC), Board of

Studies (BOS), Department advisory board (DAB). Alumni contribute to curriculum updates and quality assessment of various administrative activities. They also share their knowledge and skills by giving expert talk, guiding students for project work and training students on emerging technologies through webinars sometimes providing collaborative projects with the industries they work in.

They spare time to judge student events and organize special sessions to develop Entrepreneurship skills among students. Some alumni contribute to placement activities.

The feedback given by alumni on various issues helps in taking corrective action for overall development of student, faculty and the institute at large.

File Description	Documents
Paste link for additional information	https://drive.google.com/file/d/1sCtT3AmPV4UvP5ZCqkBzR4yCsAzNRzaJ/view?usp=sharing
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs)

E. <1Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

Institute has Vision and Mission in place. On the basis of SWOC analysis, Institute has prepared a strategic plan with necessary objectives and corresponding key activities to be organized to achieve them.

For achieving globally competent graduates and post graduates, global exposure was given to students by training in emerging areas. 1682 students completed EDX certifications, 853 students completed NPTEL certifications, 2 Hackathons were organized

involving 250 students' participants by providing necessary mentoring and facilities. To ensure required competency, Faculties completed 98 and students 21 certifications of FDPs/Seminars/workshops/industrial trainings respectively

For producing Doctoral engineers 88 research papers were published out of which 30 Scopus indexed.

For building leadership students campaigned and compeered events such as 2 Symposiums, 4 project competitions, 1 programming contest, 5 Entrepreneurial activities and @ 37 student chapter professional society events.

For modernization, there was use of Virtual labs, effective content preparation for delivery through 1186 videos, Submission and assessment on MOODLE & Google Classroom and Project based learning using recent technology. 5 workshops w.r.t Industrial revolution 4.0 involving automation using IOT, 3D printing and AI/ML were organized.

For growth of society, 21 industry collaborated projects were completed and 16 no of extension activities were carried out.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

Due to the policy of participative management @ 38% of faculties participate in various statutory bodies/committees in various capacities. Activity coordinators independently coordinate various curricular, co-curricular, extracurricular and outreach activities with adequate student representations on bodies/committees.

Professional society student chapter are headed by faculty advisors and has well formulated student's committee and event coordinators. In tune with decentralization policy, the committee finalizes a list of activities for overall development of students during the year and committee is empowered & responsible for everything including planning, organizing & budgeting, using

financial liberty/power stipulated by institution.

The Computer Society of India (CSI) organized Hackathons, Programming contests, workshops and Project competitions in 2020-21, @ 47% students participated. This chapter was awarded best accredited student branch in period 2016-2019 and Best Coordinator for 2016-17.

Indian Society for Technical Education (ISTE) organized events involving Team building & communication, Ideathon and Assembly drawing competition. @ 18% students participated in ISTE chapter was awarded Best Students Chapter in 2016-17. Institute of Engineers, India (IEI) has organized 15 various events .including webinars and Panel discussions. @ 17 % students from the institute participated. This chapter offers scholarships to needy students and is one of the best chapters in Maharashtra.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Institute's strategic objectives and key activities are in place. Due to Covid-19 pandemic the students need to effectively study online as the institutions were closed since March 2020. Thus keeping T-L uninterrupted & effective, accordingly various key activities are carried out to strengthen virtual T-L process.

Content creation:

Institute's Professional Learning Community has focused on e-content creation. 3350 Videos are available to students on Institute YouTube channel, having 36.6K subscribers and many viewers. These are also available on our MOODLE as a part of Leaner centric MOOC(LCM).

Appropriate platform:

After providing formal training in Education Technology to faculties, they are employing instructional strategies such as competitive-collaborative learning, PBL and many more & ICT Tools

during content delivery and assessment to make it student centric. MOODLE platform is effectively used for Publishing of Courses and assessments, Feedback, employability enhancement activities.

Assessment tools:

The assessment schedule is predefined in the Academic Calendar and results are in public domain. Students' assessment was in accordance with COs of the course and on cognitive levels of Bloom's taxonomy after due scrutiny. Other assessments modes were LCM.

Inspite of virtual learning it became interactive and participative due to all disruptive innovations used in virtual T-L process.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	View File

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

Institute functioning is well structured, decentralized and monitored by Governing body, an apex body headed by trust Chairman and Principal is secretary. Head of the departments, responsible for the departmental administration, reporting to principal are supported by the Laboratory In-charges, faculties, laboratory assistants and menial staff in the working of Laboratories and various departmental activities. Proper student's representation is ensured on various statutory bodies and committees for effective functioning.

Administration & Accounts are two verticals; lead by Registrar & Finance Officer respectively has well defined structure.

Governance is monitored through statutory bodies/committees, formed as per the norms, namely College Development, Internal Quality Assurance, Standing , Internal Complaints Committee for women, Anti-Ragging , Grievance and Finance Committee Library is

the independent entity looked after by library committee headed by faculty in charge and coordinated by librarian. Extra-curricular and co-curricular activities are carried out by various committees, headed by faculties. Training & Placement officer coordinates the activities like employability enhancement, Internship, Training and Placement.

Governance and Policies of the institute such as Strategic Management including vision mission statement, Code of Conduct, Policies of Deputation of Faculty, Promotional, Maintenance, Delegation of Financial Powers, etc. are transparent, being well disseminated on institute website.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	https://www.witsolapur.org/pdfs/Organisation-Structure.pdf
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

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

6.3 - Faculty Empowerment Strategies

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

Welfare measures for teaching and non-teaching staff

1. Appreciation to faculty and staff for performing good work and completing Ph.D. program.
2. Recognition to outstanding faculty and staff with "Bhausaheb Gandhi Sevabhavi Puraskar.
3. The facility of Group Medical Insurance, EPF, and Gratuity Fund for regular staff in the college.
4. Availability of financial support through various schemes of 'Employee's co-operative society'. (Pathapedhi)
5. Provision of 'Employee Welfare Fund' Savings Scheme by Credit Co-operative Society.
6. Recognition / Promotions for good work based on PBAS performance and outstanding contribution.
7. "Earn while you learn" scheme for staff, for higher education during service.
8. Extending facilities for higher studies to faculty and staff.
9. Felicitate faculty and staff for completing their higher education and distinguished achievements.
10. Promotion to higher posts for faculty / staff.
11. Opportunities for staff and faculty to upgrade their qualification.
12. Leave type: Casual, Duty, Medical, Earned, study & Maternity leave
13. Birthday celebration.
14. Faculty members are provided with TA and DA for presenting Technical papers at National and International conferences
15. Admission to the wards of faculty and staff on a priority basis
16. Need-based advance against salary for faculty and staff.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

30

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

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

11

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

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

115

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

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

Performance Based Appraisal System is in compliance with the regulations of AICTE and UGC.

Faculty performance is assessed based on the following:

- Teaching - Learning process with disruptive Innovations, E content creations and Student's Feedback
- Contribution to the administrative and developmental activities
- Research and Academic Contributions
- Continuous self-up gradation
- Contribution to Society

Appraisal system implementation steps

- Submission of PBAS form by Faculty
- Scrutiny and assessment of PBAS by committee
- Review by HOD and Principal
- Communication to respective employee and Corrective action if any

The API scores of PBAS are considered as basic requirement for Career Advancement Schemes implemented for faculty.

The faculty not fulfilling the CAS requirements are informed about the shortcomings in their performance and counseled for improvement.

Motivation is provided to all those performing exceedingly well. Those who could not show satisfactory performance are given an opportunity after counseling they are advised to improve.

In spite of support and instructions, if someone is not attempting for improvements, such persons are served with a 'Show cause notice' and asked for their clarification.

Performance based assessment of non-teaching staff is also carried out according to Circular No. CFR-1295/P.K. 36/9513, Dt. 1/2/1996, issued by General Administration Department of Maharashtra State Government

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

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. These annual audited statements are available on institute website.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

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

6.04

File Description	Documents
Annual statements of accounts	View File
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Resource mobilization policy of the institute:

Following are the sources through which funds are mobilized for the institute.

- Students fee collection.
- Providing Testing and consultancy services to society.
- Real time projects funded by various industries/agencies.
- Submission of proposals to various Govt. & non Govt. agencies like AICTE, DST, BCUD, UGC, SERB, IEI, ASHRAE etc. for receipt of grant
- Undertaking various training programs
- Surplus generated through organization of various activities.
- Funds from parent trust

Optimal Utilization:

Optimal Utilization is insured through the following process.

- The requirement is judicially arrived at by taking inputs from the stakeholders (number of pages reduced in journal as per requirement).
- All purchases are done through competitive bidding resulting in least cost of procurement.
- Promoting digital processes (paperless administration)
- In-house maintenance of equipment to maximum extent possible.
- Doing collaborative programs with society leading to minimization of expenditure.
- Our buildings are green and require minimum use of electricity during the day.

- Use of solar panels to minimize the usage of electricity.
- Use of intranet to minimise efforts of menial staff and paper consumption to convey messages.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5 - Internal Quality Assurance System

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

Academic year 2020-21 was facing challenges of COVID-19 and teaching -learning process was carried in on-line mode. In the meeting conducted on 10/08/2020 IQAC decided that during this period, life-long learning skills shall be inculcated through self-learning using Coordinated Student Development model. It was decided to facilitate students an access to various global platforms through tie-ups, including industry collaborations to enhance professional development and to encourage them to take up appropriate courses to earn credits and/or for overall development, in self-learning mode at their pace. Students successfully completed certifications NPTEL, eDx, Infosys-Springboard and Coursera platforms.

Due to these skills, the student's employability enhanced resulting into 41% increase in the number of offers & increase of 30% in average package.

In the same meeting of IQAC, it is recommended that faculty members shall carry out R&D activities through funded & collaborated research by applying to various govt. / non govt. funding schemes, sponsored projects & consultancy and shall publish their research in quality journals & conferences. During 2020-21, faculty submitted more than 20 proposals for seeking grants and received grants from various organizations like The American Society of Heating, Refrigerating and Air-Conditioning Engineers, AICTE, ISTE and PAH Solapur University Solapur. During 2020-21 faculty published total 88 quality research papers.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

Incremental improvements made for the preceding year with regard to quality and post accreditation quality initiatives

Assessment and evaluation of various academic activities and suggestions for improvement in the same is implemented through two tier academic audit system - an internal audit (annually through IQAC members) and external audit (biannually through members outside the institutions and/or from industry). Objective of the audit is to review teaching learning and assessment process. The review of infrastructure and facility is also taken with view to note its adequacy/deficiency, if any so that facilities and infrastructure will assist in proper delivery of teaching learning process.

Following Parameters are reviewed during Academic audit:

1. Students Admissions and quality
2. Faculty Strength and Qualification
3. Infrastructure & Amenities
4. Curriculum
5. Identification of Curriculum Gap & Action Taken
6. Teaching-learning Process
7. Students Assessment
8. Results Analysis & evaluation of COs, POs and PSOs attainment
9. Industry-Institute Interaction
10. Feedback from various stakeholders
11. Overall Student Performance
12. Faculty Development and R&D

Any two examples of institutional reviews and implementation of teaching learning reforms facilitated by the IQAC

1. Quality Initiative 1: Improving Final Year Project Assessment Process

It was observed that assessment process adopted for final year project lacks objective tools and methods and needs improvement.

IQAC designed an exhaustive a 4-stage review and evaluation system for final year Project work using rubric for individual and team performance of the students.

Outcomes:

1. Exhaustive monitoring and assessment process is adopted for evaluation of Project work.
2. Facilitated the individual and team performance assessment of a student.
3. Overall quality improvement of the projects

2. Quality Initiative 2: Use of virtual lab facility

It was observed that the student at large do not have any access to the laboratories in the institute during Covid -19 pandemic period.

IQAC recommended extensive use of different virtual platforms like virtual lab, simulators and virtual programming labs for students.

IQAC suggested for special slot in the time table for Virtual Laboratories (VLAB) for effective Teaching-Learning during laboratory sessions. Objective of implementing VLAB in the time table is to improve the quality of education as an innovative form for distant learning during COVID-19 pandemic. Total 379 experiments from VLAB were conducted online through VLAB during AY2020-21.

<https://drive.google.com/file/d/1ng42yXdZlHVYxxLcfQnxmLtQVCiI0Ixa/view?usp=sharing>

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC);

A. All of the above

Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

File Description	Documents
Paste web link of Annual reports of Institution	https://www.witsolapur.org/pdfs/annual-report-2020-21.pdf
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Institute is well aware that without gender equity, the nation cannot progress. Keeping this in mind, the following initiatives have been taken for attainment of gender equity:

- To provide an equal opportunity to women in all areas in order to have their own policies: Overall 28% of employees are ladies. @21% of employees who are in administration are ladies.
- To undertake activities for the development of women and provide necessary facilities and security: This year, Webinar on Yoga Asana to Boost Immunity for Women and health awareness was conducted. Facilities like common rooms with first aid kit, sanitary napkin vending & incinerator machines are provided. A separate girl's cell organizes activities for girls on skin care, HB problem, self-defence, fitness and provides counseling on personal hygiene. The Institute has constituted a Women's grievance redressal cell to address the issues of girls and women.

- Encourage participation of all students equally in curricular, co-curricular & extra-curricular activities: Overall 51% of participants in various activities are girls
- Motivate women for higher education and research: @5% of lady faculty completed Ph.D. and 7% are pursuing.
- Our Institute has bagged AICTE Lilawati Award of 1 Lakh Rupee in the category of "Women health"

File Description	Documents
Annual gender sensitization action plan	https://www.witsolapur.org/pdfs/gender-sensitization-action-plan.pdf
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://www.witsolapur.org/pdfs/facilities-for-women.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

B. Any 3 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

In the campus, solid waste zones are prepared for the smart measurements/weighing techniques. All types of wastes are measured/ weighed as per their technical criteria. Solid biodegradable waste generated in college campus and college canteen is recycled in 'Vermicomposting Unit'. This is the most

successful project and large quantities of high quality vermicompost have been produced for use within the campus. Garbage consists of Garden / Horticultural waste, Mess/ Canteen, Paper. Average quantity of vermicompost produced is 2000 kg/year. E- Waste produced from various departments are segregated and sent to E- waste recycling. Rubbish produced from the Institute is outsourced to Municipal Corporation, Solapur.

Waste water namely Grey water generated from Boys Hostel (mainly bathroom wastewater) and guest house is treated using anaerobic wastewater Treatment plant. An anaerobic filter is a fixed-bed biological reactor with one or more filtration chambers in series. As waste water passes through the filter, particles are trapped and organic matter is degraded by the active biomass which is attached to the surface of the filter material. Treated water is used for secondary usage like gardening purposes.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles

B. Any 3 of the above

3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping	
File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File
7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution	
7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	A. Any 4 or all of the above
File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File
7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading	A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	View File
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

Institute always takes efforts to provide an inclusive environment for students and staff to facilitate development of tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Institute celebrates the different festivals with joy and enthusiasm. Various activities are organized through NSS such as expert lectures on women health, Yoga, environmental issues, Marathi Bhasha Samvardhan Pandharwada, etc. Students are encouraged to write articles and participate in competitions in different regional languages. Mandatory course on Environment Science is added in curriculum. Institute render service to society by providing counseling for Engineering aspirants, participating in Unnat Maharashtra Abhiyaan, through our PLC YouTube channel of educational videos, Testing and Consultancy, etc. In this pandemic, institute offered helping hand to society by providing financial aid through COVID relief fund, Hostel Campus for Quarantine centers. Faculty member rendered their services to many Hospitals during COVID for the oxygen supply and fire audit and along with students worked as frontline COVID warriors. Institute has permitted students to pay admission fees in installment to support the parents to cope up with the COVID financial implications. Institute plays a role of a facilitator to help students to get scholarships through government and private agencies and organizations.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	View File

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Through various activities, Institute sensitizes the students and the employees of the institution to the constitutional obligations about values, rights, duties, and responsibilities of citizens which enables them to conduct as a responsible citizen. This year due to COVID-19 pandemic, the events were conducted in online mode. On the occasion of 'Constitution Day' and 'National Voter's Day', an awareness program was arranged through the NSS cell to educate about constitutional and voter rights. Many faculties attended online workshops on 'Universal Human Values' being organized by AICTE, New Delhi. Students' induction programs are conducted to create the right understanding about human beings, family, society, environment and civilization which acilitates the students to improve their life skills, employability and global competence significantly. Sessions were arranged during student's induction programs by faculty and external experts to inculcate the values necessary to render students into responsible citizens. In the curriculum too, value added audit course of 'Democracy' and HSS course of 'Professional

Ethics and Human Values' is included to create awareness about rights and duties and inculcate professional ethics among students. Students showcase their professional ethics and etiquettes through their behavior in classrooms, in various competitions, during team work, while working on projects, preparation of reports, presentation, etc.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://www.witsolapur.org/pdfs/activities-that-inculcate-values.pdf
Any other relevant information	https://drive.google.com/file/d/16PMi7Hn16ze_d7OR6_GZFV04es9pXW-3/view?usp=sharing

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

B. Any 3 of the above

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The institute takes sincere efforts in celebrating the national and international commemorative days, events and festivals throughout the year. Due to COVID-19 pandemic situation this year all the events were celebrated in online mode. Independence Day is celebrated on 15th August 2020. 'Gandhi Jayanti' and 'Lal Bahadur Shastri Jayanti' is celebrated on 2nd October 2020. 'Sardar Vallabhbhai Patel Jayanti' was celebrated on 31st Oct. 2020. On this occasion students and staff took the 'Ekta Oath'.

'Constitution Day' was celebrated on 26th November 2020 and took the 'Constitution Oath'. Voter awareness programme was organized from 23rd Jan. to 25th Jan. 2021 on the occasion of 'National Voters Day' by organizing poster making and elocution competition. 'Netaji Subhash Chandra Bose Jayanti' was celebrated as Parakram Divas on 23rd Jan. 2021. National Republic Day is celebrated on 26th January 2020. 'Marathi Bhasha Samvardhan Pandharwada', is celebrated on 27th Jan. 2021, wherein students presented various Marathi Poems and stories. 'World Wetland Day' was celebrated on 2nd Feb. 2021 wherein students participated in Quiz and Poster Making Competition. 'International Women's Day' was celebrated on 8th March 2021. International Yoga Day was celebrated on 21th June 2021 with great enthusiasm under the guidance of Patanjali Yogapeeth.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

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

Best Practice 1

1. Title of the Practice:

Disruptive Innovations in Teaching-Learning (T-L)

2. Objectives of the Practice

To facilitate disruptive innovations in T-L to continuously enhance T-L and to facilitate students learn anywhere, any times and many times.

3. The Context

Covid-19 pressed education sector to switch from physical to online teaching. The primary objective was to ensure

uninterrupted & effective T-L through online mode.

4. The Practice

Institute is practicing disruptive innovations which include implementation of Learner Centric MOOCs(LCM) using e-content generated @e-Learning-Center, Blended T-L while employing ICT & instructional strategies, use of LMS: MOODLE

Every faculty member is creating 5 videos and at least one LCM every semester. Also @15 instructional strategies & 10 ICT Tools are employed during content delivery.

5. Evidence of Success

- @3500 videos uploaded on YouTube Channel are found useful across the globe. Subscribers are 27500 and views are 4120178.
- Inculcation of blended T-L resulted into smoothly shifting overnight from physical to an online mode during COVID-19 pandemic.
- 52 research publications on ET and various awards

6. Problems Encountered and Resources Required

- Training on ET, Regular follow-up & facilitation are essential factors

Resources required

- Digital Platform for T-L, recording facility supported by expertise, Adequate Internet Facility

7. Notes

Blended T-L is the need of the day. Especially in COVID-19 pandemic, all have been shifted to virtual/online platform, where effective T-L has become a challenging task. Such innovations will facilitate all the stakeholders in online/offline mode

Best Practice 2

1. Title of the Practice:

Inculcating life-long learning through self-learning using Coordinated Student Development (CSD) model

2. Objectives of the Practice

- To inculcate lifelong learning through a CSD model
- To facilitate an access to various global platforms
- To encourage students to take up appropriate courses in self-learning mode at their pace.

3.The Context

Facilitation of various MOOC platforms will enable to accommodate the preferences of an individual learner to pursue their interest for and beyond the course curriculum. Our CSD model has been instrumental in inculcating lifelong learning through self-learning leading to successful completion of MOOC and. in overcoming the constraints of COVID-19 as students are already used to technology enabled T-L (learning remotely).

4.The Practice

It is an observation that generally in normal circumstance MOOC implementation is one way, leading to low success rate. With an objective to enhance success rate and to facilitate the learning process to be a joyous one, Institute has developed the CSD model which aims at inculcating lifelong learning through continuous self-learning with commendable success rate.

5. Evidence of Success

The success rate of MOOC implementation at the institute level is @90% which is very much higher as compared to the success rates observed globally. The student's employability enhanced resulting into 41% increase in the number of offers and 30% increase in the average package.

6. Problems Encountered and Resources Required

Problems Encountered

At student end:

- Inadequate Mobile Data plan
- Poor Internet connectivity/appropriate hardware.
- Delayed Peer-Review assignments response during course completion

Resources required

1. Desktop/Laptop/Tab/Smartphone with audio and Internet
2. Collaborations to access online-platforms
3. Human Resources as per CSD model.

7. Notes

The success rate of MOOC implementation was commendable and appreciated by respective platforms which is due to our CSD model. For ensured success, this proven model can be adopted by other institutes.

File Description	Documents
Best practices in the Institutional website	https://witsolapur.org/bestpractices.php
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Mutually Beneficial Industry-Institute Collaboration: Institute has a well structured Industry Institute Partnership Cell (IIPC) for engaging collaborative activities with Industry. Industry experts are invited to represent industry on our various governing systems. This provides an opportunity to seek suggestions on various areas of improvement. Recommendations of industry experts are implemented to the maximum possible extent.

Faculties and students undertake various courses offered by industries like IBM, Amazon, Microsoft and Infosys, available on various platforms like EDx. Coursera, Infosys springboard, Internshala and NPTEL. Total no. of course certifications of varying durations are more than 3000.

The institute continues to undertake industry-sponsored/collaborated research projects. Overall, 21 industry collaborated projects are completed. The institute has membership in professional societies such as IE(I), CSI, SAE and ASHRAE. Through various collaborative activities, we actively participate

in various activities , as well students register & participate in various competitions and conferences.

A professional platform named HackerEarth is widely used in competitive programming.. Faculty and students have successfully completed the certification on Google Cloud Ready programme.. The institute has an MOU with RedHat for training in web development, web servers, network security and certification. This year Institute entered into MOU with National Highway Authority of India. In all institutehas entered into 23active MoUs.

Faculty members offer testing and consultancy services to various organizations on matters related core Engineering, IT & various quality initiatives generating a revenue of Rs 20,65,560/- through 112 projects.

As an impact of all these, institute received a research grant of 4000USD from ASHRAE. Institute offered consultancy services generating a revenue Rs. 20,65,560/-. Five faculties received certificate of appreciation from Texas Instrument, USA. Institute is recipient of certificate of excellence from Infosys. Institute is ranked as a top performer by Tata Technologies as part of their distance ready engineer program. All our professional societies have been recognized, being recipient of awards.

Companies like Infosys, Mindtree, Paytm, Persistent Systems, Tata Consultancy Services,Wipro ,Tech Mahindra, Accenture, Capgemini, Celebal Technologies, Cognizant, BYJUS, Dassault System's, Atlas Copco (India) Pvt. Ltd., axcess.io, Burckhardt Compression (India), Busch Manufacturing India, Faurecia, Galaxe Solutions, KSB Pumps Ltd., Magna Automotive India, Michelin India Technology Center, Triveni Turbines Ltd., Estimators Online provide job opportunity & internship to students. Total 58 companies visited campus for Recruitment Drives and students have received 483 job offers with highest annual package of Rs. 10 Lakh.

Following is the list of Industry-Institute collaborated activities:

- Industry expert sessions: 51
- Industrial Visits: 12
- Internship completed by students: 1548
- Visiting Faculty from industry:17
- Faculty training by industry:124
- Faculty provided training to industry persons:6
- Industry persons attended Executive programme organized by

institute:5

- Industry collaborated Projects:21

File Description	Documents
Appropriate web in the Institutional website	View File
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

An Autonomous Status is conferred on Walchand Institute of Technology, Solapur for 10 years from A.Y. 2021-22 by University Grants Commission, New Delhi (UGC) and Punyashlok Ahilyadevi Holkar Solapur University, Solapur (PAHSUS). Solapur.

Accordingly, the entire system for autonomy will be geared for Examination, Academic, industry collaborations, Innovation and R&D etc • More flexibility will be brought in offering and design of curriculum to incorporate courses/ skill requirement as per industry need along with facilitation of credit transfer. Setting Collaborations with foreign universities/organizations • Thrust will be on various collaborations with industry through various linkages and research in collaboration with industry on 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 competencies of faculty, Non-teaching staff. • 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 • Increase students participation in various co-curricular activities like Smart India Hackathon (SIH), Project Competitions, Paper presentation, etc. • Facilitation to have internships with stipend which will convert into placement. • The self-learning ability of the students will be nurtured by facilitation to enroll for various courses available on the MOOC platform to inculcate lifelong learning. • Efforts to make the campus Smarter and Greener • Continue to participate in various quality evaluation surveys like NIRF, AICTE-CII Survey for Industry

Linkages, Times of India survey, etc.

NAAC