



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		WALCHAND COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr. P. H. Sawant
Designation		Director
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		02332303433
Mobile no.		9322213065
Registered Email		director@walchandsangli.ac.in
Alternate Email		info@walchandsangli.ac.in
Address		Opp. Willingdon Post Office, Vishrambag, Sangli
City/Town		Sangli
State/UT		Maharashtra
Pincode		416415

2. Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)	20-Nov-2006				
Type of Institution	Co-education				
Location	Urban				
Financial Status	Self financed and grant-in-aid				
Name of the IQAC co-ordinator/Director	Dr. K. S. Gumaste				
Phone no/Alternate Phone no.	02332303115				
Mobile no.	9420764490				
Registered Email	deanqa@walchandsangli.ac.in				
Alternate Email	walchand@rediffmail.com				
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)	http://www.walchandsangli.ac.in/iqac/AQAR%202018-19%20Final.pdf				
4. Whether Academic Calendar prepared during the year	Yes				
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.walchandsangli.ac.in/academics2122.asp				
5. Accrediation Details					
				Validity	
Cycle	Grade	CGPA	Year of Accrediation	Period From	Period To
1	A	3.25	2016	29-Mar-2016	28-Mar-2021
6. Date of Establishment of IQAC			05-May-2015		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries		

RSC 2019 National Symposia	19-Dec-2020 3	35
Dr. P. K. Kharat conducted One week In-Plant training on	02-Mar-2020 5	50
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
World Bank / Govt. of India	TEQIP III	World Bank MHRD	2017 1460	41519000
Civil G R Munavalli	DST	DST	2019 365	8240000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

2

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

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

29th Aug' 19 Scavenger Hunt A treasure hunt is arranged for first year students within the campus. Students get to explore the campus and increase social binding. 5th Sep' 19 Teacher's day Every year ELESAs arranges a Teacher's day program to express gratitude towards teachers. 5th, 6th Oct' 19 ELECTROVERT It is the mega event of ELESAs. It is an inter college 2day event. 5 technical and nontechnical events are organized wherein students get to develop their various skills. Multiple rounds are arranged and final round is judged by faculty members or industrial judges. 11th Jan 2020 Alumni Meet Departmental alumni meet is organized by ELESAs. Various entertaining performances are presented. Alumni guide the students regarding higher studies, job opportunities, recent trends in industry and much more. 7th, 8th Feb' 2020 Roboholic Robot competition arranged for college students. A theme is specified (e.g. robosoccer) and teams build a

robot for given specs. Final competition is arranged for 2 days.

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

Plan of Action	Achievements/Outcomes
24 April - 16 June 2020 Covid Product Design Coordinator Dr.V.B.Dharmadhikari	Following products designed Worked on Embedded System Design of "Low cost Ventilator Design". Design of Control system hardware, PCB, fabrication, Embedded Software and on site testing of Misting Tunnel Design of automatic soap water dispenser hardware, fabrication, enclosure design and fabrication, testing and completions of 25 prototypes for installation in our college.
A State Level Mega Event VERTEX'19 was conducted on 12th and 13th October 2019	comprised of 7 sub events, more than students [articipated
Participation in Go-Kart Go-Kart Design Challenge is a national level kart designing competition organized by Indian Society Of New Era Engineers (ISNEE).	Overall Rank 3rd in 125cc Combustion engine Category Overall Rank 1st in Cost Evaluation in 125cc Combustion engine Category Overall Rank 5th in Design Evaluation
TECHNOCRAT is a state level technical symposium arranged by Electrical Engineering Students' Association (EESA)	No of Entries: 750+ Different events were carried out in two days
Participation in eBAJA 2020 Competition of designing, manufacturing and performance testing of an electrical ATV was organised by SAEINDIA in two stages.	Our team (25 members) bagged following success: 3rd in cost evaluation. Fastest lap completion.

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Academic Council	07-Aug-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission	2020
Date of Submission	28-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Institute has customized MIS in place with different modules like Student Admission / Fee collection, Hostel Management, Hostel Admission, Room Allotment, and Fee collection Examination system with course registration and complete result processing with a relative grading scheme. Complete Learning Management System (LMS) on Moodle with Attendance Management and online examination, etc. Library Management System with OPAC Faculty and staff establishment leave management Payroll Procurement Management system with Enquiry / Comparative / Bill Processing and Stock management Accounts system on web based tally system

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	600719110	Civil Engineering	28/06/2019
BTech	600724210	Computer Science and Engineering	28/06/2019
BTech	600724610	Information Technology	28/06/2019
BTech	600729310	Electrical Engineering	28/06/2019
BTech	600737610	Electronics Engineering	28/06/2019
BTech	600761210	Mechanical Engineering	28/06/2019

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	.B.Tech	01/06/2019	Development	01/06/2019

	Computer Science and Engineering		of Societies/Philosophy 4HS201/4HS202 Applied mathematics for Computer Science & Engineering (4CS201) Computer Organization and Architecture (4CS205) Programming Lab 1 (4CS253)	
BTech	B.Tech Electrical Engineering	01/06/2019	Law and Engineering(4HS301)/ Foreign Language-German(4HS305))/ Human Relations at Work(4HS306	01/06/2019
BTech	B.Tech Information Technology	10/06/2019	Object Oriented Programming 4IT253 1. Java Programming 4IT273 2. Mini Project I 4IT272 1. Web Technology 4IT353 2. Internet of Things 4OE 385 3. Python 4OE 386 4. Free and Open Source Software 4OE 387 1. Parallel Programming 4IT373 2. Mini Project 34I	10/06/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Project work at Industry	28/06/2019
BTech	Software Engineering Lab 4IT274	10/06/2019
BTech	Minor Course in Computer Science & Engineering	31/07/2019

BTech	Minor Course Electrical Engineering	31/07/2019
Mtech	Dissertation work at Industry	28/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	All, As mentioned in curriculum on Institute Website http://www.walchandangli.ac.in/academics2122.a	01/07/2018
Mtech	All, As mentioned in curriculum on Institute Website http://www.walchandangli.ac.in/academics2122.a	01/07/2018

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Electronic Systems	01/06/2019	72
Biomedical Engineering	01/01/2020	65
Cyber Physical Systems	01/06/2019	20
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Including all Specializations	110
Mtech	Including all Specializations	23
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

Students are required to give feedback for course regarding teaching process once in a semester. During course a course feedback is taken before midsemester examination. It mainly focuses on faculty/ instructor's performance in conducting a particular course. The purpose of feedback questionnaire is to gather information on the learning experience, as well as students' responses to the course and the faculty. The questions reflect subjective perceptions of students on various aspects of the course and the faculty involved in the course. The information provided is useful for the faculty as well as to the higher authorities in the ongoing efforts to enhance the quality of education at the Institute. The feedback is treated as confidential. The evaluation results are computed using the rating in a scale of 1 to 5 on parameters such as course organization, teaching effectiveness, counselling, assessment and overall performance from the responses of students and is communicated to the concerned faculty through the Head of the Department. The course teachers whose performance indicators are low, they are counselled by Heads of respective departments

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Civil Engineering	60	60	60
BTech	Computer Science and Engineering	90	90	124

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1751	299	78	25	88

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
108	108	6	22	9	8

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

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

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

Class Teachers and individual faculty members assigned with a group of five students from each classwork as

mentors for the students. They often meet students to ask their problems (both technical and personal) and monitor their performance. They provide professional guidance, career guidance, course-specific, and laboratory-specific guidance to the students of their class. Thus, they try to resolve the problems which students face during their graduation studies

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2051	108	1:19

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
89	65	Nil	32	33

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. P. G. Sonavane	Professor	Educational excellence award by Sakal media group.
2019	Dr.V.D.Salkar	Associate Professor	Excellent research in Environmental Engineering, RULA award Accredited by world research council
2019	Dr. R. P. Hasabe, Mr. S. S. Karvekar	Assistant Professor	Working as Jury in Internal Hackathon for Smart India Hackathon 2020.
2019	Dr. S. P. Sonavane	Associate Professor	50 Fabulous Edutech Leaders by World Education Congress

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	All Courses	2019-20	13/12/2019	04/01/2020
Mtech	All Courses	2019-20	13/12/2019	04/01/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nill	1751	0

2.6 – Student Performance and Learning Outcomes

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

<http://www.walchandsangli.ac.in/Academics.asp>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
600724210	BTech	Computer Science and Engineering	117	117	100
600737610	BTech	Electronics Engineering	67	67	100
600719110	BTech	Civil Engineering	75	74	98.67
600721110	Mtech	Civil-Structural Engineering	27	27	100

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2.7 – Student Satisfaction Survey

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

<http://www.walchandsangli.ac.in/TEQIP3.asp>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Dr. Mrs. M. M. Patil Ms. S. U. Patil
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
No Data Entered/Not Applicable !!!				
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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Industry sponsored Projects	365	Dassault Systems	3.19	3.19
Interdisciplinary Projects	365	RGSTC-TIFAC, Mumbai	2.95	295
Industry sponsored Projects	365	Fresh Express logistic limited	5	5
Any Other (Specify)	365	TEQIP-III	3.97	3.97
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

3

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Intellectual Property rights	Computer Science and Engineering	22/05/2020
“Augmented Reality: An Industry 4.0 Initiative”	Mechanical Engineering	16/11/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
A framework for optimization of time and cost considering safety in shore-Reshore decision for construction of flat slab in a multi-storeyed building.	Dr.P.K.Sohoni	IIT Delhi	02/11/2019	Ph.D.

50 Fabulous Edutech Leaders	Dr.S.P.Sonavane	World Education Congress	04/07/2019	50 Fabulous Edutech Leaders
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Civil Engineering	1
Computer Science and Engineering	3
Mechanical Engineering	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Electronics Engineering	24	Nil
International	Civil Engineering	20	Nil
International	Computer Science and Engineering	10	Nil
International	Electrical Engineering	2	Nil
International	Information Technology	20	3.8
International	Mechanical Engineering	42	1.5
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Electronics Engineering	5
Civil Engineering	2
Computer Science and Engineering	10
Electrical Engineering	14
Information Technology	2
Mechanical Engineering	28
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
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Contactless Sanitation System	Filed	202021026169	22/06/2020
"smart solution for government offices using IoT"	Filed	2019210337630	18/09/2019
Detection of crop diseases using image processing and atmospheric condition and suggesting remedy	Filed	201921038636	25/09/2019
System and Method for Facilitating Verification of Academic Certificates using Blockchain	Published	202021035355	01/05/2020
No file uploaded.			

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Smart sensing of medical disorder detection for physically impaired person	Dr. S. G. Tamhankar	Science Direct ,Journals and Books, 2020, Pages 179-200	2020	1	Walchand College of Engineering	1
Counterfeit Currency Detection using Deep Convolutional Neural Network	Kiran Kamble Anuthi Bhanjali Pransali Satalgaoonkar Shrutti Alagundgi	2019 IEEE Pune Section International Conference (PuneCon)	2019	4	Walchand College of Engineering	4
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A Novel Approach for Forecasting the Linear and	Gaurav Chavan Basahirahamad Momin	Advances in Intelligent Systems and	2019	1	1	Department of Computer Science

Nonlinear		Computing book			and EngineeringWalch and College of Engineering Sangli India
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	24	256	6	27
Presented papers	58	10	Nil	Nil
Resource persons	1	6	4	11
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Scrutiny of RCC Des Drgs of 100 Cum. Cap, Sump Pump House at Nandani	M/s. Padmavati Construction	4200
Civil Engineering	Mix design M - 20 M - 25	Mahalaxmi Readymix Concrete, I' karanji	25424
Mechanical Engineering	Micromachining	Dr. Mital Kevadia, Bharati Vidyapeeth, Sangli	5000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				
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3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Embedded System Design of "Low cost Ventilator Design".	TEQIP	1	39

Design of Control system hardware, PCB, fabrication, Embedded Software and on site testing of Misting Tunnel	TEQIP	1	52
Design of automatic soap water dispenser hardware, fabrication, enclosure design and fabrication, testing and completions of 25 prototypes for installation in our college.	TEQIP	1	43
Estimation of Flood Affected houses and Survey	District Collector office and Zillha Parishad Office Sangli.	2	60
CSR social (EESA	Dilasa Bhavan	1	51
Committee member of Disaster Management Committee	Collector Office, Sangli	1	41
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Estimation of Flood Affected houses and Survey	Appreciation Letter for Contribution to Society	District Collector office and Zillha Parishad Office Sangli	60
Smart India Hackathon (SIH) 2019	Winner in SIH grabbed an amount of Rs. 75000	MHRD	7
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Event	WCE ACM	Jagruti'20	1	45
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Twinning Activity with Jabalpur Engineering College Jabalpur- Delivered Expert lecture from Department Senior Faculties	60	TEQIP- III	4
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Dissertation Work/ Internship of Students	Nonlinear analysis of Pre Engineered buildings and its comparison with conventional steel structures	Antarkar Consulting Engineers, Pune	01/08/2019	31/03/2020	1
Internship	Job Assistance	Veritas Technologies	01/12/2019	23/06/2020	4
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Jabalpur College of Engineering, Jabalpur	14/05/2019	Academic Cooperation and Research	10
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
133	115

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added

Null	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
SLIM21	Fully	3.2.0	2014

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	84943	15678522	Null	Null	84943	15678522
Journals	Null	Null	113	277167	113	277167
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. V. B. Dharmadhikari	Embedded System, RTOS , Webinar	YouTube	09/03/2020
Dr. V. B. Dharmadhikari	Signal Processing	YouTube	09/03/2020
Dr.S.N.Tande	1) Finite Element Method , -Isoparametric Elements , Plate and Shell Element, FEM applications to Structural Dynamics. 2) Structural Analysis - Slope deflection Method , Moment distribution Method ,Flexibility , Stiffness Method	YOU- TUBE Link of You Tube Channel.Dr .S.N.Tande https://www.youtube.com/channel/UCeZaQte8MpBtv_0i1MspYUQ/ Total FEM Lectures -28 Nos. Total Structural Analysis 35 nos	29/03/2020
Dr.S.B.Kadam	1) Advanced Earthquake Engineering - Nonlinear Analysis, 2) Structural Dynamics 3) Design of Concrete Structures- Design of Isolated Footing.	YOU- TUBE Link of You Tube Channel.Dr .S.B.Kadam https://www.youtube.com/channel/UCF2huWrvjoIhsyj1vFk8NVQ/videos Total - 8 Nos Lectures on You Tube Channel.	06/04/2020
Ms. Sonali S. Rokade	Two courses Computer Graphics	YouTube	18/07/2020

	and Database Engineering		
Dr. A. J. Umbarkar	Unix Operating System, Free and Open Source Software	Scoology.com	15/07/2019
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1450	17	17	17	1	18	6	450	100
Added	0	0	0	0	0	0	0	0	0
Total	1450	17	17	17	1	18	6	450	100

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

450 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Moodle Facility URL (Locally Hosted on College Server)	http://112.133.242.241/moodle/
Remote Access through	https://walchandsangli.knimbus.com/user#/remoteAccess
Dspace	http://10.10.16.175:8080/jspui/

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
40	35	64	56

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

<p>It is common practice to appoint housekeeping staff and sundry labors for casual repairs of buildings every year. Petty contractors are appointed for some of the works by calling quotations for the works. Usually, equipment is maintained through AMC with suppliers. However, if the equipment is need for calibration or repairs any service provider is consulted to set it right.</p>
http://www.walchandsangli.ac.in/iqac.asp

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support**5.1.1 – Scholarships and Financial Support**

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Nil	0	0
Financial Support from Other Sources			
a) National	District Social Welfare Office, Economically Backward Class, Tribal Development Office	1700	42600000
b) International	Nil	Nil	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Start-up-Talk	10/10/2019	100	Dr. Shantanu Patil, Head of Innovation centre SRM Institute of Science and Technology and Orthopaedic Surgeon SRM Medical College and Hospital and Research Centre, Chennai
Expert Lecture: Start-up-Talk, practical learning experience of the life cycle of any start-up from ideation to success	21/09/2019	120	Dr. Vivek Sabnis, Ex-director, Program Management and Operations, Qualcomm
One day entrepreneurship skill development lecture on Future in Solar Power Industry and Entrepreneurship Challenges	16/11/2019	92	Solvix Power Solution, Jasingpur
Skill and Career Development Training Program" under TEQIP-III for S.Y. B. Tech Electrical Engineering Students	25/01/2020	75	WCE Sangli

Induction programme for FY B Tech Students	19/08/2019	470	Experts from various institute in Maharashtra
Technical Skill Enhancement (One Day workshop on " Docker:A FOSS Virtualization Technique ")	09/11/2019	68	TEQIP III, Applied AI Consultant, Pune
Technical Skill Enhancement (One Day workshop on " Software Testing : A Practical Approach)	05/10/2019	68	TEQIP III, Citi Bank, Pune
Technical Skill Enhancement (One Day workshop on " Android Programming)	09/02/2019	68	TEQIP III, Arkininda, Sangli
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Aptitude sessions conducted by TPO	Nil	51	Nil	42
2019	GATE Coach (Video Lecture Software & GATE material is provided)	31	Nil	11	Nil
2019	Gate awareness Programme	68	68	11	11
2020	Online Career Counselling program	154	154	Nil	Nil
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
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Nill	Nill	Nill
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5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Google, Amazon, Dell, Seagate etc	537	375	Nill	Nill	Nill
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	B. Tech	Electronics Engineering	IIM, Ahmedabad	MBA
2020	20	B. Tech.	Mechanical Engineering	Georgia Tech, IIM Indore, IISc Bangalore, IIT Bombay, Guwahati, Kanpur, Madras,	MBA, MS, M. Tech. in Mechanical
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	72
CAT	3
GRE	13
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
ELESA Weekly Club service	Institute	80
Scavenger Hunt	Institute	60
ELECTROVERT	National	200
Roboholic	Institute	150
Aakar	National	300
AutoCAD workshop	Institute	60

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Individual championship with 18 medals in - Sangli zonal swimming tournament was held at district sports complex swimming tank	National	1	Nil	Nil	Tej Kulkarni
2019	Hackathon	National	1	Nil	Nil	Ajit Sanjay Attarde Dhanraj B. Bhosale Vinod Sitaram Patil Pranav Shashank Gosavi
2019	e-Yantra, IIT Bombay	National	1	Nil	Nil	Parshwa Navale Vishal Narkhede Shivdeep Bisurkar

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

The student's representatives serve in almost all academic and administrative bodies of the college such as the departmental board of studies, departmental associations and various clubs, student's council, Anti Ragging Cell, Anti sexual harassment cell, Placement, and Career Guidance Cell, NSS, Gymkhana Committee, Library committee, etc.. Role of Student Representatives Disseminate the information from the college administration to all students. Organize technical, non-technical and social events. Conduct Quiz Competitions on current affairs. Organize programs in NSS. Arrange study tour and Environmental Studies field trip. To maintain conducive and anti-ragging ambiance in hostel and college premises. Any additional information regarding Student Support and

Progression, which the institution would like to include. List of associations and clubs at Walchand College of Engineering, Sangli. ? CESA (Civil Engineering Students Association): MESA (Mechanical Engineering Students Association): EESA (Electrical Engineering Students Association): ELESA (Electronics Engineering Students Association): ACSES (Computer Science and Engineering Students Association): SAIT (Information Technology Students Association): PACE (Personality Advancement Circle of Engineers): Softa (Student organization for technical activities): WLUG (Walchandiest Linux User Group): Rotaract Art Circle NSS VISION Competitive Exam Study Group

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes, the college has a registered Alumni association. The Alumni association contributes actively to the welfare of the institution. The alumni meeting is organized once / twice a year by all the departments. Illustrious and prominent alumni are invited to deliver special lectures, motivating the students to go for higher education and to find the means for job opportunities. All the departments have the alumni as members of their BOS. Their valid suggestions are taken into consideration in designing and updating the curriculum.

5.4.2 – No. of registered Alumni:

260

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

800000

5.4.4 – Meetings/activities organized by Alumni Association :

- 9th Alumni Meet was organized at WCE Sangli on 11th January 2020. Various entertaining performances are presented. Alumni guide the students regarding higher studies, job opportunities, recent trends in industry and much more.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The overall progress and development of the college are headed by the Governing body followed by the Director, Registrar, the Deans and the HOD's looking after the various portfolios. The College Development Committee, Finance Committee, and the Academic Council are Intermediary but important bodies that mentor the Director in taking decisions regarding institutional development, financial issues and Academic related implementations, respectively. However, all major decisions are ratified by the Administrative Council.

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

Partial

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Teaching and Learning	<ul style="list-style-type: none"> o Academic Calendar o Use of Moodle LMS for course management o Use of digital boards in classroom for better

	<p>illustrations o Facility of streaming lectures from the classroom o Facility for digital tabs for online teaching o Sufficient opportunity and time to students for self-learning/ co-curricular activities</p>
Curriculum Development	<p>o Involvement of industries/Alumni in the process of curriculum development o Updations on curriculum based on the industry trends o Importance for experiential learning through mini-projects o Interdisciplinary courses for nurturing system level though process o Courses in humanities including foreign language course and engineering/legal related course</p>
Library, ICT and Physical Infrastructure / Instrumentation	<p>Institute is Government Aided Autonomous Institute all norms for Purchases are followed as per Government of Maharashtra. Online tender process is in place All the receipt and payments are through bank and online transfers no cash transactions. For bills and payments online tracking process is in progress</p>

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

E-governance area	Details
Planning and Development	MIS, MOODLE
Administration	Partial MIS, SAMARTH
Finance and Accounts	Tally 3.7 For all online receipts and payment of fees online mode is enabled, Stake holders can use any payment mode like online banking, credit /debit cards, UPIs for any transactions and online receipts are generated through system.
Student Admission and Support	CLMS 6.0
Examination	Moodle, CLMS6.0

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Prof. Dr. B.S. Gawali	ISHRAE Program In HVAC	Nill	7372
2020	Prof. R.M. Chanmanwar	International Conference on Precision Micro and Nano	Nill	11620

		Engineering, IIT Indore		
2019	Dr. Kadam S.B	Performance based Design of Building and Bridges for Enhance Seimic Resilience at Delhi	TEQIP III	24800
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	IoT in Automation by Dolphin Labs, Pune	Nil	06/10/2019	08/10/2019	11	Nil
2020	Workshop on Arduino in IoT Series	Nil	08/02/2020	08/02/2020	30	Nil
2019	Embedded Linux Board and Interfacing with Peripherals	Nil	18/11/2019	20/11/2019	5	Nil
2020	IEEE membership importance and benefits	Nil	25/02/2020	25/02/2020	10	Nil
2020	FDP on Power Plant Familiarization	Nil	02/03/2020	06/03/2020	7	Nil
2020	In plant Industrial training at Power Plant, ADTPS, Dahanu	Nil	02/03/2020	06/03/2020	7	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Two week FDP on Paradigm Shift in Higher Education Institutes: Opportunities and challenges	1	01/01/2020	06/01/2020	6
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
72	54	112	52

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Staff Welfare Fund	Staff Welfare Fund	Student Welfare Fund

6.4 – Financial Management and Resource Mobilization

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

<p>Yes. The college has been appointing internal and external auditors annually. The external auditor is a statutory auditor. The internal auditor makes quarterly balance sheets. The statutory auditor carries out half-yearly and yearly audits. In addition to this for the grant-related fund provided by the state government, a separate audit is carried out by the regional office of the Directorate of Technical Education and by "Audit General (AG)" of the state government.</p>
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6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
World Bank / Govt. of India	415.19	Null
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6.4.3 – Total corpus fund generated

No Data Entered/Not Applicable !!!

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Null	Yes	Dean Academics
Administrative	No	Null	Yes	Dean Academics

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

During First Year Students Induction Program , Parents are invited and addressed in orientation session.2. Parent-Teacher Meet is conducted each year and feedback from parents is collected.3. Parents are invited on Graduation Day Function.

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

-

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

Research projects Focus on Agriculture Technology and Transportation System
Rigorous Curriculum Revamping (in line with AICTE guidelines (2019) Specificity in Logical Budgetary Planning at Institutional Level (2018) •Initiative in Innovation and Start-up drive (2019) Focus of Attracting Top-notch Multi-national Companies for Placements Campus Reformation based on Environmental concern and Swachata Abhiyaan

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Public Health Engineering - Sludge Treatment	29/09/2019	Nil	Nil	53
2020	Electrical Safety Week	11/01/2020	11/01/2020	17/01/2020	43
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
ART OF LIVING PROGRAM FOR STAFF	08/04/2019	13/04/2019	5	12

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

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

The institute has implemented solar technology for generating alternate nonconventional sources of electricity of 12MWh which is connected to the Electricity board grid. The electricity generated contributes to saving 30 of

conventional energy.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	20
Provision for lift	No	Nil
Ramp/Rails	Yes	20
Rest Rooms	Yes	25
Scribes for examination	Yes	20

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	14/02/2020	2	Solid Waste Treatment and Management	waste management	217
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Pedagogical techniques in Electronics and Electrical Engineering	10/08/2020	14/08/2020	46
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. The rich vegetation within the campus facilitates a lower temperature (3-4°C) in the campus as compared to the external campus temperature. 2. The campus is well protected and is a home to various domesticated animals viz. Peacocks, rabbits, birds of various species and reptiles thus exhibiting Balance in the ecosystem. 3. Use of Plastic is strictly banned in the campus. All the faculty members have been provided with steel bottles for water storage and the messes and canteen have been instructed to use non-plastic utensils. 4. The college campus has protected five perennial wells, supplying water for secondary uses 24/7 throughout the campus. 5. Solar Lighting on the streets within the campus is implemented. 6. The college caters to accommodate approximately 1000 students distributed over 8 hostels, a temple and about 30 families of the faculty/staff staying in staff quarters which are exclusively maintained by the college. 7. Buildings are provided with Rain Water Harvesting

facilities protecting the water table on the campus. A well-maintained jogging track is constructed around the playground which is not only extensively used by the internal stake holders but as well is kept open for the local public in the mornings. 8. Smart Pole Concept has been initiated. 9. Waste water generated in hostels as well as in mess are recycled and reuse for horticulture Garden (Banana Garden).

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Practicing Outcome Based Education 2. Use of Multimedia in classrooms/laboratories 3. Implementation of ICT, E-learning resources for students' self-learning 4. On-line assignments, examinations and assessment, Access to IITB virtual lab 5. Transparency in evaluation system and Relative grading system 6. Online student feedback system 7. Use of multimedia and ICT in teaching (viz. interactive boards, LCDs, Internet), NPTEL, IUCEE webinars in teaching/ learning 8. Use of Moodle for uploading all academic related data by each faculty through e-course book. 9. e- learning motivation for Open Electives, Professional Electives on MOOC for students 24x7 Lab availability 10. The open source software usage and contribution is primary focus. 11. Bottom up approach for budget preparation. Requisition and approval process in place for all purchases.

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

<http://www.walchandsangli.ac.in/igac/best-practies%20walchand.pdf>

7.3 – Institutional Distinctiveness

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

Legacy of 75 years. 3 Times Accredited. Leading Institute in Maharashtra. Qualified Faculty. The institute has 84.9 Placement of students in various reputed companies such as Google, Amazon, Rakuten, Veritas, Dell, Mahindra, Philips, LT, Dassault Systems, TCS, Eaton etc, with highest salary of 43 LPA and average salary of 6.7 LPA. The highest placement is in BTech CSE (98.05), followed by IT (95.5), Electronics(91), Electrical(84), Mechanical (80.65) and Civil(54).

Provide the weblink of the institution

<http://www.walchandsangli.ac.in/>

8. Future Plans of Actions for Next Academic Year

Future plans for the academic year 2020-21 1. Modernization and increasing number of class rooms 2. creating state of the art infrastructure for Teaching, Learning, Assesement and Administration 3. Collaboration with other HEI 4. Presentation at National and International level 5. Organization of workshops, training on advanced technologies 6. Strengthening Alumina network 7. Strengthening Industry interaction 8. Curriculum advancement to match with AICTE guidelines and NEP 2020 9. Celebration of Platinum Jubilee Year by organizing various activities