



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		WALCHAND COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr. G. V. Parishwad
Designation		Director
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		02332303433
Mobile no.		9822871801
Registered Email		director@walchandsangli.ac.in
Alternate Email		walchand@rediffmail.com
Address		Opp. Willingdon Post Office, Vishrambag,
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. G. V. Parishwad			
Phone no/Alternate Phone no.		02332303433			
Mobile no.		9822871801			
Registered Email		director@walchandsangli.ac.in			
Alternate Email		deanqa@walchandsangli.ac.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		http://www.walchandsangli.ac.in/iqac/AOAR2017-18Final.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/Academics.asp			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				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		Date & Duration		Number of participants/ beneficiaries	

IQAC		
MoUs were signed with 12 Engineering Colleges nearby under AICTE-Margadarshan Scheme in the presence of Dr. Dileep Malkhede, Advisor, RIFD AICTE and Dr. Madhukar Waware, WCE faculty presently on deputation to AICTE as Deputy Director, e-Governance, AI	09-Jul-2018 7	1500
8th Alumni Meet was organized at WCE Sangli on 13th January 2019. Shri. Ramkumar Rathi and Shri Abhijit Pawar were the Chief Guests. We signed revised MOU with Sakal (Abhijit Pawar). Senior Faculty Dr. S.G. Joshi, Dr. (Mrs.) Shaila Apte and Dr. R. N. Ar	12-Jan-2019 1	250
A National Conference on Recent Trends in Mechanical Engineering	21-Jun-2018 2	150
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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
WCE	QIP	AICTE	2016 1	1980000
WCE	Faculty	DST	2016 1	0
WCE	MPCB	MPCB	2016 1	834000
WCE	CDTP	CDTP	2016 1	1200000
WCE	Gov	TEQIP - II, III	2016 1	22200000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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10. Number of IQAC meetings held during the year :	3
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?	Yes
If yes, mention the amount	31701976.26
Year	2017

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

• The AICTE has rated our institute, Walchand College of Engineering, as the Best in Maharashtra state and among 30 in the country in following best practices among engineering institutes. The AICTE shortlisted 30 institutes out of 250 reputed engineering institutes across the country, of which 8 are from Maharashtra State. • Dr. V.B. Dharmadhikari selected for developing an ecourse on "Arduino Based System Design", by Dassault Systems at a global level. • Ajit Gulabchand Central Library of WCE received the "Best Library of the Year Award 2019" by ISTE Maharashtra and Goa Chapter on 5th January 2019 at A.P. Shah Institute of Technology, Thane at the hands of Dr. M.P. Punia, Vice Chairman of AICTE, Dr. Abhay Wagh, DTE, Maharashtra, and Dr. Pratap Desai, President ISTE. • MoUs were signed with 12 Engineering Colleges nearby under AICTE Margadarshan Scheme in the presence of Dr. Dileep Malkhede, Advisor, RIFD AICTE and Dr. Madhukar Waware, WCE faculty presently on deputation to AICTE as Deputy Director, eGovernance, AICTE on 1st October 2018.

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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	Achivements/Outcomes
1.Presentation at International Level	WCE team of Shri Vikas Randive, and Shri Jaydeep Shinde of M. Tech.Design students won the first prize of Rs. 50,000/ Sankalp Award for their 3D Printer at IMTEX2019 organized at International Exhibition Center, Bangalore during 2430th January 2019.
2.Faculty Contribution at Global level	Dr. V.B. Dharmadhikari selected for developing e-course on "Arduino Based System Design", by Dassault Systems at

	global level.
3. Recognition for Quality Education	Dr. P.G .Sonavane, I/C Director of WCE, Sangli received Educational Excellence award on 3rd July 2019 for Walchand College of Engineering, Sangli from "SAKAL" Media Group. The award received as Recognition from Society for Quality Education.
4. Organization of International event	3rd National Conference on 'Recent Trades in Mechanical Engineering' was organized by the Mechanical Engineering Department, during 21-22nd June 2018. Total 132 research papers were selected from 23 colleges for presentation.
5. Innovation and award	Nine-member team of T.Y. students from Civil, Mechanical, Electrical, Electronics and IT won the MindSpark Technical Championship - 2018 at COE, Pune during 28-30th September 2018 in the Annual National Level Technical event from the shortlisted 15 teams. Team received a Trophy and Rs 50,000/- award.
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Administrative Council	28-Aug-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2019
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Date of Submission	16-Feb-2019
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	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
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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 webbased 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	09/07/2018
BTech	600724210	Computer Science and Engineering	09/07/2018
BTech	600724610	Information Technology	09/07/2018
BTech	600729310	Electrical Engineering	09/07/2018
BTech	600737610	Electronics Engineering	09/07/2018
BTech	600761210	Mechanical Engineering	09/07/2018

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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
Mtech	All Specializations	09/07/2018	Dissertation work at industry Skill development programmes	09/07/2018
BTech	All Specializations	09/07/2018	Project work in industry Internship Skill development programmes	09/07/2018

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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	Grid Integration of Renewable Energy	09/07/2018
BTech	Neural Network and Fuzzy Application to Power System	09/07/2018
BTech	Smart Grid	09/07/2018
BTech	PLC and Embedded Systems	09/07/2018
BTech	Deregulated Power System	09/07/2018
BTech	Application of Power Electronics to Power Systems	09/07/2018
BTech	DSP Application to Power System	09/07/2018
BTech	EHVAC	09/07/2018
BTech	Computer Aided Power System Analysis	09/07/2018
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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	As mentioned in curriculum on Institute Website	09/07/2018
Mtech	As mentioned in curriculum on Institute Website	09/07/2018

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
Professional Electives as mentioned on Institute website	09/07/2018	500
Open Electives as mentioned on Institute website	09/07/2018	500
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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	180
Mtech	Including all Specializations	70

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 courses regarding the teaching process once in a semester. During the course, feedback is taken before the mid-semester examination. It mainly focuses on faculty/ instructor's performance in conducting a particular course. The purpose of the 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 on a scale of 1 to 5 on parameters such as course organization, teaching effectiveness, counseling, 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 counseled 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	Electrical Engineering	60	60	63
BTech	Electronics Engineering	60	60	62
BTech	Mechanical Engineering	66	66	66
Mtech	Civil - Structural Engineering	30	30	30
Mtech	Electronics Engineering	30	30	29

2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1875	435	103	27	130

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
130	130	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
2292	130	17.63

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
88	81	25	17	32

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
2018	Dr. V. D. Salkar	Associate Professor	Excellent research in Environmental Engineering, RULA award Accredited by world research council

2018	Dr. S. P. Sonavane	Associate Professor	"50 Fabulous Edutech Leaders" by World Education Congress (through Research Gate)
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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	2018-19	04/05/2019	23/05/2019
Mtech	All Courses	2018-19	06/07/2019	29/07/2019
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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
0	2292	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
600721110	Mtech	Civil - Structural Engineering	25	25	100
600761210	BTech	Mechanical Engineering	79	78	98.73%
600759810	Mtech	Mechanical - Heat Power Engineering	19	19	100
600724210	BTech	Computer Science and Engineering	115	115	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)

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

Sunil Tamhankar

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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
National	Dr. M. M. Khot	Post – Doctorate	09/07/2018	IIT Mumbai
National	B. N. Naik	Ph. D.	09/07/2018	IIT Delhi
National	S. V. Gaikwad	Ph. D.	09/07/2018	IIT Roorkee
National	P K Kharat	QIP PhD	04/10/2019	NIT Suratkal
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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
Minor Projects	365	AICTE	19.8	19.8
Minor Projects	365	MPCB	8.34	8.34
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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
Laser diffraction particle size analysis of fine construction material using Particle size analyser	Civil Department	08/05/2019
New age learning through	Mechanical Department	28/09/2018

3D experience platform		
ANROID Application Development	Information Technology	07/01/2019
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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
Mindspark, the National level, annual technical festival of College of Engineering, Pune (COEP),	Sushil K. Byale (TY Electronics) Dhanraj B. Bhosale (TY Electronics)	COEP, Pune	30/09/2018	Competition
HackathonPune 2018	1.Kaivalya Mendki 2.Abhishek Kotkar	e-Zest Solutions and Fresco Capital	14/10/2018	Competition
A Study on Effect of Reactor Geometry and	Kalyani Kulkarni	Institution of Engineers (India)- Pune Local Centre	08/03/2019	Presentation of working model
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
TSC DISQ	TCS Digital Impact Square	Tata Consultancy Services	Innovator Android Developer at Digital Impact Square, Nashik (Rohit Khot)	Software Servie Provider	01/05/2019
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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
Computer Science and Engineering	3
Mechanical Engineering Department	2
Applied Mechanics Department	2

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	26	4
International	Mechanical	11	3.5

	Engineering		
National	Applied Mechanics Department	1	1
International	Applied Mechanics Department	30	1.5
National	Electrical Engineering	3	1
International	Electrical Engineering	4	2.6
International	Information Technology	4	4.9
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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
Information Technology	2
Electrical Engineering	22
Applied Mechanics Department	5
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A Method for Vehicle Monitoring System Using Radio Frequency Identification (RFID) Based Data Acquisition System	Published	201821021439	31/08/2018
A System and A Method for Faster Biometric Data Processing on A Distributed Computing System	Published	201721011898	05/10/2018
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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
Formal verification of opportunistic routing protocol using SPIN	Thorat, S.A., Kulkarni, P.J., Yadav, S.V.	IEEE	2018	0	Walchand College of Engineering, Sangli	0

model
checker

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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
PF-FELM: A Robust PCA Feature Selection for Fuzzy Extreme Learning Machine	Kale, A.P. , Sonavane , S.	IEEE Journal on Selected Topics in Signal Processing	2018	2	2	Walchand College of Engineering, Sangli
Experimental and Parametric Optimization of Micro Holes on ANSI 304 Using Micro Abrasive Jet Machining (MAJM)	V.V.Vanmore , U. A. Dabade	V.V.Vanmore , U. A. Dabade	2018	11	0	Walchand College of Engineering, Sangli
Low Cost Household Water Treatment Systems: A Review	A. D. Mande, B. R. Kavathekar, A. S. Langade, N. G. Lasankute S. H. Patle	International Journal of Engineering Research Technology (IJERT), ISSN: 2278-0181, Volume 7, Issue 3, 2018.	2018	0	0	Walchand College of Engineering, Sangli

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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	0	0	8	0
Presented papers	10	2	0	0
Resource persons	0	0	5	0

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Concrete Mix Design	DRN Infrastructure	40120
Mechanical Engineering	Vibration measurement and frequency spectrum analysis	NA	57820
Applied Mechanics	Structural Audit of Building at Sangli.	NA	45000

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Applied Mechanics	Demonstration/Practical of Structural Dynamics Lab	PVPIT, Budhgaon	5000	18
Applied Mechanics	Demonstration/Practical of Structural Dynamics Lab	Orchid College, Solapur	5000	15

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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
West Marathon	Walchand College of Engineering, Sangli	1	200
Awareness program by Nirbhaya Group	Police Department, Sangli	1	100
Blood Donation Camps	Rotaract, WCE, Sangli	1	150
CSR (EESA) Social	Dilasa Bhavan	2	25

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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
Book Chapter	Springer Book	Chapter in Computational Intelligence in Sensor Networks	250

Springer Book,
Series Title:
Studies in
Computational
Intelligence, 2018.

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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
WCE Marathon	Walchand College of Engineering, Sangli	Women Empowerment	1	150
Swachh Bharat Abhiyan -	Walchand College of Engineering, Sangli	Abhyuday (Drawing, Essay and Street play for plastic use awareness)	4	50
Swachh Bharat Abhiyan -	Walchand College of Engineering, Sangli	Swach Bharat summer Internship	1	8
ELESA social activities	Walchand College of Engineering, Sangli	ELESA social activities	1	40
WCE Marathon	Walchand College of Engineering, Sangli	Women Empowerment	1	150

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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
Student Exchange	2	Self	180
Course Management and Technology based teaching	50	AICTE	7
Guest lecture by faculty of JEC	5	TEQIP-III	3
Sponsored Project (B. Tech)	2	IIT, Kanpur	180
Sponsored Dissertation (M. Tech)	1	PRDC, Bangalore	240
QIP Research Program	Dr. P. K. Kharat	QIP	1095

QIP Research Program	Dr. R.R.Rathod	QIP	1095
Third National Research Symposium on Computing	All Dept Faculty	TEQIP III	3
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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
Internship	B. Tech Project Sponsorship	ABS Professional Services	01/01/2019	15/04/2019	6
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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
The Organizing Committee of IC CET-2019, BATU Lonere	10/07/2018	Joint National Conference	250
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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
303	218

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Newly Added
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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	84126	15298662	722	339218	84848	15637880
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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	09/07/2018
Mr. N. V. Marathe	Signal Processing	YouTube	09/07/2018
Dr. V. B. Dharmadhikari	Linear Integrated Circuit, Lab Manual	E Material	30/04/2019
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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	850	18	850	2	2	1	8	250	0
Added	50	6	0	0	0	0	0	50	0
Total	900	24	850	2	2	1	8	300	0

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

400 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
YouTube Lecture series by Prof. N. V. Marathe	https://www.youtube.com/user/nvmarathe1/featured
YouTube Lecture series by Dr. V. B. Dharmadhikari	https://www.youtube.com/user/vbdharm/featured
Slide share profile of Dr. V. B. Dharmadhikari	https://www.slideshare.net/vbdharm
Moodle Facility URL (Locally Hosted on College Server)	http://112.133.242.241/moodle/

Digital Library URL (Locally Hosted on College Server)	http://10.10.12.108/
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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
153	25	150	20

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)

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.

<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	1712	42622020
b) International	Siemens Scholarship	22	1880120
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Personal Counselling and Mentoring	05/11/2018	115	Department of CSE, WCE, Sangli
Remedial coaching	08/04/2019	63	Department of CSE, WCE, Sangli
Remedial coaching (Basic Electrical Engg.)	15/04/2019	18	Electrical Department
Remedial coaching	01/04/2019	37	Electrical

(Micro-processors)			Department
Remedial coaching for "Theory of Computation"	01/04/2019	10	TEQIP III
Mentoring	11/07/2018	277	WCE
Remedial coaching for "Web Development and Application"	01/04/2019	15	TEQIP III
'C', C JAVA Language Lab	09/07/2018	75	WCE
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	MOOCS	25	0	0	0
2018	GATE coach Academy (Video lecture software & GATE material is provided)	140	0	16	0
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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
0	0	0

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
LinkedIn	1	1	Kokan railway	50	1
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
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	higher education				
2019	56	B.Tech	Mechanical Engineering	IITs NITs	M.Tech
2019	1	B.Tech	Information Technology	IIT Hydredabad	M.Tech CSE
2019	1	B.Tech	Mechanical Engineering	University of Michigan	MS
2019	1	B.Tech	Mechanical Engineering	University of North Carolina	MS
2019	1	B.Tech	Computer Science & Engineering	IIM Indore	MBA
2019	1	B.Tech	Computer Science & Engineering	IIM Kozhikode	MBA
2019	1	B.Tech	Mechanical Engineering	NITIE	PGDM
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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
GRE	2
CAT	10
GATE	100
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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
WEST	National	4500
ASG	Institute	500
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Badminton	National	1	0	2016BTECV00060	1
2019	Badminton	National	1	0	2016BTECV00027	1
2019	Handball	National	1	0	-	1
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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): ELESAs (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. Recently Er. Abhijit Pawar (Sakal Group) donated Rs. 1 crore for infrastructure, staff and research development activities at the institute.

5.4.2 – No. of registered Alumni:

250

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

500000

5.4.4 – Meetings/activities organized by Alumni Association :

- 8th Alumni Meet was organized at WCE Sangli on 13th January 2019. Shri. Ramkumar Rathi and Shri Abhijit Pawar were the Chief Guests. We signed revised MOU with Sakal (Abhijit Pawar). Senior Faculty Dr. S.G. Joshi, Dr. (Mrs.) Shaila Apte and Dr. R. N. Aranke along with 10 Alumni were felicitated for their achievements during this ceremony.
- WCE Alumni: Dr. Sadanand Joshi (Mechanical-1972), who is president of Joshi Technologies International Inc. (JTI) of Tulsa, Oklahoma, U.S.A. received the highest technical award John Franklin Carll International Award given by Society of Petroleum Engineers for his contribution to the development of Horizontal Well Technology, during its Annual Technical Conference and Exhibition (ATCE) held on Tuesday, 25th September 2018, in Dallas.

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	The classroom teaching is well supported by smart boards, and LCD projectors. The academic calendar is strictly followed and monitored for delivering course contents define by every course teacher in course delivery plan. Penalty based attendance system is followed. Opportunity for students to learn at other institutes of repute is provided through credit transfer scheme. There is scope for industry-oriented projects for both UG and PG students. Moodle is effectively used for effective teaching-learning. The inputs are taken from learners through feedback every semester and are used to address the issues related to teaching-learning. Remedial classes during the semester and summer term are conducted. The industrial and field visits, expert lectures for contents beyond syllabus are organized regularly.
Curriculum Development	Regular revamping of curriculum through involvement of academicians and industry personnel. The process is monitored at various levels within department and institute. Outcome based, choice-based and student centric policies are given more thrust in curriculum design. More focus on professional and open electives. Internal academic audits with intra-departmental auditors are regularly conducted twice a year. Total credits and academic requirements recommended by AICTE model curriculum are strictly adhered to for both UG and PG programmes. Students encouraged undergoing courses available on SWAYAM

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

E-governance area	Details
Planning and Development	MIS, Moodle
Administration	MIS
Finance and Accounts	Tally
Student Admission and Support	CLMS6.0
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	Dr. P. K. Sohoni	ARCOM Conference, UK	NA	39934
2018	Dr. R. S. Desai	13th ICCST, Spain	NA	62142
2018	Dr. S. B. Kadam	10th Australasian Masonry Conference, Australia	NA	181000
2019	Mr. A. K. Mali	Analysis and Design of pavement and Highway Geometry	NA	32000

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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	Course Management and techno logy-based training	Course Management and techno logy-based training	21/01/2019	25/01/2019	7	2

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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
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Natural Language Processing	20	20/07/2018	21/07/2018	2
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
70	58	114	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)

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.

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
Ramkumar Rathi	5100000	Research Centre
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6.4.3 – Total corpus fund generated

114538104

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	University Affiliation Committee NBA expert committee	Yes	HOD
Administrative	Yes	External Auditor, TEQIP Auditor, University Affiliation Committee NBA expert committee	Yes	Director and Registrar

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

1. 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)

1. Eight staff members deputed to attend Workshop on Healthy Life Style, 8 - 10 March 2018 2. Eleven staff members were sent to NSTI- ATI- Hyderabad to attend a training program on MS Office, 25 to 29 June 2018. 3. Training in 'Tally' Software to all administrative staff, 27 May to 5 June 2019. 4. 45 staff participated in the In-house Training Programme on 'Safety in Electricity Handling' at WCE, Sangli, 23 Feb. to 2 March 2019

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

- Examination Reforms with respect to Specially Challenged Students (2017)
- Research projects Focus on Agriculture Technology and Transportation System (2017)
- Rigorous Curriculum Revamping (in line with AICTE guidelines (2018)
- 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 (2017-2019)
- Campus Reformation based on Environmental concern and Swachata Abhiyaan (2019)

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	IPR Cell for Patenting Rights	09/07/2018	10/07/2018	10/07/2018	9
2019	Course Management and Technology based Teaching	21/01/2019	21/01/2019	25/01/2019	50
2018	Natural Language Processing	20/07/2018	20/07/2019	21/07/2019	40
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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
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			Female	Male
Art of Living for staff	03/02/2018	03/02/2018	40	50
Hackathon National level coding competition	16/03/2019	17/03/2019	20	40

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	0
Ramp/Rails	Yes	20
Scribes for examination	Yes	0

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	09/07/2018	365	Sustainable building design and project management using (bim): a case study on new civil hospital building.	1	10
2019	1	1	09/07/2018	365	Study and design of solid and liquid waste management system in ankali	1	10

					village		
2019	1	1	09/07/2018	365	Identification of blackspots on Sangli-Kolhapur highway and preventive measures	1	10
2018	1	1	09/07/2018	365	Smart E-commers	1	4
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Chapter 16. Discipline and Conduct	09/07/2018	Any act of misconduct by any stakeholder of the institute is considered violating institute ethical and professional culture, and is subjected to disciplinary action. Such cases have to face an investigation or enquiry and the action taken by the Disciplinary committee is recorded and implemented. A few cases related to unethical practices in examinations and student misbehavior have been handled by the relevant committee and action taken is documented.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Introduction to LATEX for dissertation report writing	04/08/2018	04/08/2018	50
Orientation Program	02/08/2018	17/08/2018	450
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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.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Student feedback on organization, assessment, and delivery of course contents is conducted twice a year to rate course teacher individually and relatively to other course teachers of that class, counseling, and guidance to teachers, thereby providing an opportunity for teachers to address their strength/s and weakness/es. 2. Encouraging teaching and Learning through MOOCs, E-learning, flipped classroom concepts and classroom equipped multimedia and smartboard. 3. Additional coaching for slow learners through remedial classes and Enrichment through interdisciplinary courses for advanced learners. 4. Facilitation of Internship and Sponsored projects in Industries to final year undergraduate students in their final semester and for eight months for Postgraduate students. 5. Annual purchase of high-end equipment and software for the development of state of art laboratories with additional virtual lab facility having remote accessibility. 6. Alumni Meet is conducted in the 2nd week of January every year since 2012.

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

<http://www.walchandsanqli.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

Provide the details of the performance of the institution in one area distinctive to its vision, priority, and thrust The Vision of this Institute is to 'Produce Capable Graduate Engineers With An Aptitude Of Research And Leadership'. The measure of the successful implementation of the teaching-learning process and realization of our vision ultimately can be monitored by evaluating the successful outcomes of the graduates in terms of their placements, higher education or pursuing entrepreneurship. In this direction, this institute not only imparts excellence in technical knowledge but also supports the students at various levels during their graduation to enhance their soft and professional skills. The incubation process is looked up by startup and Innovation Cell to encourage students participation in several Hackathons, Techfests, nationally recognized competitions like Baja, EFFICYCLE, etc. Students have proved their talents by winning various prizes in several events at national and international levels. The final measure of the success of the vision is the Placement record of the institute. Past four years, on average, 80 of them appeared candidates are placed through campus with an average salary increasing from 3.5 LPA in 2016-17 to about 6.5 LPA in 2018-19. More than 80 companies all around the country visit the institute for placement, of which worth mentioning are LinkedIn, Rakuten, Dell, Hindustan

Unilever, Atlas Copco, John Deere, Shapoorji Pallonji, LT, etc. For the past two years, companies like Microsoft, IDC, Directi, LinkedIn, Deeshaw, Rakuten have visited the campus and have selected graduates offering the highest packages of 33 - 37 LPA. On the other hand, candidates who aspire for higher studies do not opt for placements but display their excellence in cracking exams namely, GATE, CAT, govt exams like UPSC, MPSC, IES, and IAS as well. About 20 of the students on average opt for pursuing M.Tech and get an entry to various IITs and NITs. Although the number of candidates choosing entrepreneurship is not known, candidates who already have a family background of business and commerce either go for MBA or enter into their own business.

Provide the weblink of the institution

<http://walchandsanqli.ac.in/>

8.Future Plans of Actions for Next Academic Year

Future plans for the academic year 2019-20

1. Upgradation of Class Rooms with ICT Tools
2. Continue to work as Nodal Centre
3. Collaboration with other HEI
4. Presentation at National and International level
5. Organization of workshops, training on advanced technologies