



Yearly Status Report - 2017-2018

Part A

Data of the Institution

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/AOAR_2016-17.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		
Organization of National Conference	29-Jun-2017 3	110
7th Alumni meet was organized Consultant, Scientist from ISRO, Shri Anant Patki (B.E. Mechanical-1965); Shri Sunil Gosavi (B.E. Electronics-1990) VP for 4G Reliance JIO, Maharashtra & Goa were present	13-Jan-2018 1	250
A State Level Event Hackathon-2018 was organized in March 2018 for the first time at WCE Sangli	03-Mar-2018 1	72
National Level Technical Event VISION-2018 was organized at WCE Sangli in March 2018.	24-Mar-2018 3	2500
Project Internship in Industry	17-Jul-2017 365	179
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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	Faculty	DST	2016 1	983000
WCE	MPCB	MPCB	2016 1	501000
WCE	Gov	TEQIP II, III	2016 1	4655000
Electronics	Embedded Design	John Deere	2016 1	22.99
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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 :	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	4655228
Year	2017

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

• AICTE has selected WCE, Sangli for the prestigious Margadarshan Scheme of funding of Rs. 22 lakh to work as a Lead Institute in the region and guide nearby colleges for their development. Earlier COEP was selected for similar funding. • This year for the first time AICTE has allotted 5 students to WCE Sangli for PhD through National Doctoral Fellowship out of total 32 allotted in six engineering colleges in Maharashtra and 132 allotted all over India in 22 engg. colleges. • A National Conference on 'Recent Trends in Mechanical Engineering' (NCRTE2017) was organized by the department of Mechanical Engineering during 2930th June 2017. Dr. Vivek Kamat, DTE, Goa was the Chief Guest for the Inauguration Ceremony. • 7th Alumni meet was organized on 13th January 2018. Consultant, Dr. Omprakash Kulkarni, (Dip in Industrial Electronics1972) Scientist from ISRO, Shri Anant Patki (B.E. Mechanical1965) Prof. Hemant Abhyankar, (B.E. Electrical1965) Shri Sunil Gosavi (B.E. Electronics1990) VP for 4G Reliance JIO, Maharashtra Goa Mrs. Arpita Majumder (B.E. Elctrical1993) Cofounder and COO of company zoonga were felicitated as distinguished alumni during this function. AC member Shri Sanjaykaka Patil, MP Sangli addressed the alumni. • Dr. Om Prakash G. Kulkarni, (Alumnus, Dip in Industrial Engg1972) visited WCE on 23rd Sept. 2017 to help in finalizing our Roof Top Solar Power Plant. Dr. Kulkarni is a wellknown scientist and consultant to the Prime Minister, the Indian Railways and the King of UAE, in Automation, Instrumentation and Energy Management. He also interacted with faculty and students and gave a talk on "Opportunities in various areas to write Funded Project Proposals and importance of IPR".

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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
Installation of rooftop Solar Power Plant	125 kW Rooftop Solar Power Plant on Main Building of WCE was inaugurated on 13th January 2018 at the hands of Consultant and WCE Alumni Dr. Om Prakash Kulkarni.
Organization of National Level Events	Four National Level Events: "Open

	Source Day", "METAMORPHOSIS" and "Techno-wizard"; by CSE and IT Departments and "VERTEX" by Mechanical Department; and one-week Community Service program 'Adhyaya-2017' organized by Rotract Club of WCE Sangli in the last three months.
Audit of TEQIP-II	The Final Statutory Financial TEQIP-II Audit of WCE, Sangli was carried out by S.K. Patodia and Associates, Mum-bai on 19th August 2017 by examining all the related documents till 31st March 2017. The CA in his report has mentioned that all the documents and data were fairly presented and are acceptable as per ICAI accounting Principles.
Planning of Activities under TEQIP-III	Dr. G. V. Parishwad, Director, Dr. V.B. Dharmadhikari, TEQIP-Coordinator, Dr. K.S. Gumaste, Nodal Officer (Finance) and Shri. S.G. Tamhankar Nodal Officer (Procurement); visited JEC-Jabalpur during 23-27th January 2018 and prepared Action Plan of the twinning program of TEQIP-III.
Organizing workshops, trainings and guest lectures on advanced technologies	More than 50 trainings organized during the year on various technologies.
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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	21-Aug-2018

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:	No
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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 having 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
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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	10/07/2017
BTech	600724210	Computer Science and Engineering	10/07/2017
BTech	600724610	Information Technology	10/07/2017
BTech	600729310	Electrical Engineering	10/07/2017
BTech	600729310	Electronics Engineering	10/07/2017
BTech	600761210	Mechanical Engineering	10/07/2017
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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	10/07/2017	Dissertation work at industry Skill development programmes	10/07/2017
BTech	All Specializations	10/07/2017	Dissertation work at industry Skill development programmes	10/07/2017
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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	Open Electives	10/07/2017

Mtech	Professional Electives	10/07/2017
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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	10/07/2017
Mtech	As mentioned in curriculum on Institute Website	10/07/2017

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
Open Electives as mentioned on Institute website	10/07/2017	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	All Specializations	103
Mtech	All Specializations	76
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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
<p>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</p>

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	Electronics Engineering	60	60	62
BTech	Mechanical Engineering	60	60	60
Mtech	Computer Science and Engineering	30	30	30
Mtech	Civil - Structural Engineering	30	30	30
Mtech	Civil - Environmental Engineering	18	18	18

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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
2017	1861	450	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)

Yes, the College has an independent system for student support and mentoring. The student support system comprises Mentor, Counsellor, HoD, Deans. The support system functions through several units such as

Departmental Mentoring System, Guidance and Counselling Cell, Placement and Career Guidance Cell, Grievance Redressal Cell, and Committees for all co-curricular and extra-curricular activities. These committees include staff and student representatives and carry out the activities under the supervision of the Director. The mentor meets the students once in a semester in the group and individually as and when required. Such meetings enable the mentors to identify and help the academically weaker and economically needy students. The mentor also contributes to the physical, psychological, social and spiritual development of the students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2311	130	17.77

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
76	76	19	17	25

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
2017	Dr. S. N. Kore	Associate Professor	Dr. Abdul Kalam Life Time Achievement National Award
2017	Dr. Mrs. S. Subbaraman	Professor	Pillars of Indian Society, Asian Chamber of Commerce, Mumbai
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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	2017-18	13/05/2017	22/05/2018
Mtech	All Courses	2017-18	14/06/2018	20/07/2018
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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	2311	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
600721310	Mtech	Civil - Structural Engineering	16	16	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://walchandsangli.ac.in/IOAC>

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

IT , Electronics

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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	R. R. Rathod	QIP PhD	06/06/2017	IIT Roorkee
National	B. N. Naik	Ph. D	10/07/2017	IIT Delhi
National	S. V. Gaikwad	Ph. D.	10/07/2017	IIT Roorkee

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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	1095	DST	40.24	9.83
Minor Projects	3650	MPCB	62.02	5.01

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies

during the years

4

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
Entrepreneurship Development and TMT Bars Quality Awareness By Swapnil Dongardive, Expert in Global Business Development	Civil Department	26/09/2017
Workshop on "Internet of Things"	IT Department	16/02/2018
Recent trends in Manufacturing Technology (RTMT)	Mechanical Department	06/04/2018
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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
Late Shri G. K. Dandekar Memorial Prize	Nanavare Mahesh Pralhad	Engineers' Architects' Association, Sangli	15/09/2017	Award
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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
Startup Enclave	Innovation, Incubation Entrepreneurship Cell	Walchand College of Engineering, Sangli	Rankz, SEO Automation (Sumit Shah)	AI and Machine Learning Tools	10/07/2017
Startup Enclave	Innovation, Incubation Entrepreneurship Cell	Walchand College of Engineering, Sangli	Learning factory	Research	10/07/2017
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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
Information Technology	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)
National	Civil Engineering	2	1

	Department		
International	Civil Engineering Department	6	2
International	Electronics Engineering Department	15	4
International	Mechanical Engineering Department	17	4.5
National	Electrical Engineering Department	3	0.8
International	Electrical Engineering Department	6	3
International	Information Technology	3	2.29
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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	1
Electronics Engineering Department	1
Electrical Engineering Department	23
Mechanical Engineering Department	86
Civil Engineering Department	23
Computer Science Engineering Department	30
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A System and A Method for Faster Reorganization Of Iris Pattern on Distributed Systems	Published	201621004648	20/10/2017
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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
Uncertainty analysis framework for trust-based	Thorat, S.A., Kulkarni, P.J.	SPRINGER	2017	4	Walchand College of Engineering, Sangli	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 spatio temporal approach for vision based hand gesture recognition using hough Transform and Neural network	Dr. Mrs. S. Subbaraman	Signal, Image and Video Processing, Springer	2018	28	1	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	7	0
Presented papers	12	3	0	0
Resource persons	0	0	1	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 Department	GSB Mis Design	The Dy. Engineer PWD, Jath	13800

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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
Nil	NA	NA	0	0

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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
CSR (EESA) Social	Dilasa Bhavan	2	30
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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
Asian Chamber of Commerce , Mumbai Pillars of Indian Society	Award Best Poster PhD Presentation Pillars of Indian Society	Asian Chamber of Commerce , Mumbai	0
International Institute for Social and Economic Reforms For teaching, re- search and publications	Dr. Abdul Kalam life Time Achievement National Award	International Institute for Social and Economic Reforms For teaching, re- search and publication	0
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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/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swachh Bharat Abhiyan -	WCE, Sangli	Plastic use Awareness Program in vegetable market	1	18
WCE Marathon	WCE, Sangli	Women Empowerment	1	150
Swachh Bharat	WCE, Sangli	Social Service	1	18
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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
Third National Research Symposium on Computing	10	TEQIP III	2
Student Exchange	1	Self	180
Sponsored Project	2	IIT Kanpur	180
Sponsored Dissertation (M. Tech)	2	IIT Bombay	240
Sponsored	1	HELLA India	240

Dissertation (M. Tech)		Automotive Pvt. Ltd.	
Sponsored Dissertation (M. Tech)	1	Siemens India Ltd.	240
QIP Research Program	Dr. P. K. Kharat	QIP	1095
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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	01/03/2018	13/04/2018	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
MPCB	04/12/2017	For air monitoring	1
abalpur Engineering College	21/07/2017	Twinning activity under TEQIP	250
Government College of Engineering, Karad	12/08/2017	Collaborative teaching learning process and exchange of faculty student resources Innovative and Social Problems Solution	4
3D PLM Software Solutions Ltd., Mumbai	28/07/2017	Collaborative teaching learning process and exchange of faculty student resources Innovative and Social Problems Solution	5
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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	
Reference Books	9608	12324957	82	444052	9690	12769009
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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	10/07/2017
Mr. N. V. Marathe	Signal Processing	YouTube	10/07/2017
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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	16	850	2	2	1	8	220	0
Added	0	2	0	0	0	0	0	30	0

Total	850	18	850	2	2	1	8	250	0
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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/nvmarathel/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/

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	118	150	100

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>

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	10/10/2017	98	Walchand College of Engineering, Sangli
Personal Counselling and Mentoring	10/11/2017	201	Walchand College of Engineering, Sangli
Personal Counselling and Mentoring	08/11/2017	42	Walchand College of Engineering, Sangli
Yoga	21/06/2018	150	Walchand College of Engineering, Sangli
Mentoring	10/07/2017	277	Walchand College of Engineering, Sangli
C, C, JAVA Language Lab	10/07/2017	75	Walchand College of Engineering, 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
2017	Competitive Exams for Technical students by Mr.Girish Khedkar, Pune, Mr.Balaji Choudari, Pune	50	50	0	0
2018	WCE Employability Skill Enhancement Program	100	416	60	329
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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
General Electric	29	1	Sahaj Software	6	1
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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
2018	15	B. Tech	Civil Department	NA	MBA, M. Tech
2018	3	B. Tech	Electronics Department	NA	M. Tech
2018	1	B. Tech	Electronics Department	IIT Bombay	M. Tech
2018	1	B. Tech	Electronics Department	Pune University	MS
2018	1	M. Tech	Electronics Department	Manneheim	MS
2018	42	B. Tech	Mechanical Engineering Department	Sunny Buffalo	MA
2018	1	B. Tech	Electrical Engineering Department	IITs, NITs	M. Tech
2018	1	B. Tech	Electrical Engineering Department	SRH Heidelberg	M. Tech
2018	2	B. Tech	Information Technology	IISc, Bangalore	M. Tech
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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	113
CAT	5
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
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Basket Ball	Zonal	12
IEDSSA	Inter Engg College	76
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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
2018	Participat ion	National	0	1	2015BCS017	Nikita Chandrakant Dharurkar
2018	Participat ion	National	0	1	2015BCS045	Rozida Shekh
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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.

5.4.2 – No. of registered Alumni:

250

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

• Shri Anant Patki (Alumnus, B.E. Mechanical-1965) visited WCE on 3rd November 2017 and gave a lecture on 'India's Mission to MARS' for faculty and students. Shri Patki retired as 'Outstanding Scientist' from ISRO Satellite Centre, Bangalore worked on Aryabhata, Bhaskara, APPLE, ROHINI and INSAT spacecraft during his 36 years. He also interacted with PG and Ph.D. students and faculty on Modelling, Simulation, and Hardware of Space Systems. • 125 kW Rooftop Solar Power Plant on Main Building of WCE was inaugurated on 13th January 2018 at the hands of Consultant and WCE Alumni Dr. Om Prakash Kulkarni. The 7th Alumni meet was organized on 13th January 2018. Consultant, Dr. Omprakash Kulkarni, (Dip in Industrial Electronics-1972) Scientist from ISRO, Shri Anant Patki (B.E. Mechanical-1965) Prof. Hemant Abhyankar, (B.E. Electrical-1965) Shri Sunil Gosavi (B.E. Electronics-1990) VP for 4G Reliance JIO, Maharashtra Goa Mrs. Arpita Majumder (B.E. Elctrical-1993) Co-founder and COO of company Kyazoonga were felicitated as distinguished alumni during this function. AC member Shri Sanjaykaka Patil, MP Sangli addressed the alumni.7th Alumni Meet was organized at WCE, Sangli in January 2018. Dr. Omprakash Kulkarni, a well-known Scientist, and consultant to Prime Minister Shri Modi, was the Chief Guest.

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 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 NPTEL/MOOCs.

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 3.7
Student Admission and Support	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
2018	Mr. Kiran. P. Kamble	International Conference on Big Data, IoT Data Analytics 2017 BID 2017	IEEE	10000
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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	Title of the administrative training programme	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
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	organised for teaching staff	organised for non-teaching staff				
2018	Origin: Data Analysis and Gaphing Software	Origin: Data Analysis and Gaphing Software	23/04/2018	23/04/2018	5	0
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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
First Intellectual Property Rights workshop for Students, conducted by IPR Cell	20	07/02/2018	07/02/2018	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
73	55	153	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 Center
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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 for 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. 5 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 wrt Specially Challenged Students (2017)
- Research projects Focus on Agriculture Technology and Transportation Systems (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	No
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	Online Mentoring to Teachers regarding Question Paper Articulation	10/07/2017	10/07/2017	10/07/2017	50
2018	Activities of Innovation and Start up cell	10/07/2017	10/07/2017	10/07/2017	50
2018	IPR Cell for Patenting Rights	10/07/2017	10/07/2017	10/07/2017	300
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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
Interdisciplinary Research in Bio Medical Engineering	09/10/2017	13/10/2017	45	60
IEEE Women In Engineering Symposium	22/06/2018	23/06/2018	1	0

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 source of electricity of 12MWh which is connected to the Electricity board grid. The electricity generated contributes to saving 30 of the 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	Number of initiatives taken to engage with	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
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	advantages and disadvantages	and contribute to local community					
2018	1	1	10/07/2017	365	Assessment of ground water quality in the vicinity of natural nala-Sheri Nala	Assessment of ground water quality in the vicinity of natural nala-Sheri Nala	10
2017	1	1	10/07/2017	365	Dental Clinic Database Management System	Limaye Dental Clinic Sangli	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	10/07/2017	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 inquiry 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
Workshop on IPR	07/02/2018	07/02/2018	60
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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) on the campus as compared to the external campus temperature.
2. The campus is well protected and is home to various domesticated animals viz. Peacocks, rabbits, birds of various species and reptiles thus exhibiting

balance in the ecosystem. 3. The use of Plastic is strictly banned on 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. 8. A well-maintained jogging track is constructed around the playground which is not only extensively used by the internal stakeholders 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 Post-graduate students. 5. Annual purchase of high-end equipment and software for the development of state of art laboratories with additional virtual lab facilities 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 2018-19

1. Development of state of the art Library
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