

ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2017-18

Submitted to



**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
BANGALORE, INDIA**



**Suryodaya College of Engineering & Technology
(Accredited by NAAC with B Grade, Approved by AICTE, Affiliated to RTM
Nagpur University, Nagpur)
Survey No. 117 / 1 & 117 / 3 Vihirgaon, Umrer Road, Tah.& Dist Nagpur (M.S.)
441204
Website: www.scetngp.com, Email: scetngp@gmail.com**

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INTRODUCTION

Suryodaya college of Engineering and Technology (SCET) Nagpur was established in the year 2010 by National Rural Development and Research Society (NRDRS). It is a self-financed unaided private institute approved by All India Council for Technical Education, New Delhi and Directorate of Technical Education, Maharashtra State. It is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

The institute vision is to be recognized among the leading institutions, imparting quality engineering education to produce world class professional who possess knowledge, skill & necessary value that help them to face challenges at global level.

The college offer four year UG programs in five disciplines of Engineering : Mechanical Engineering (ME), Computer Engineering (COMP). Electronics & Telecommunication Engineering (ETC), Electrical Engineering (EE) and Civil Engineering (CE).

In addition, Suryodaya College of Engineering and Technology (SCET) Nagpur conducts three year Diploma Program in shift II in two disciplines Civil Engineering (CE) and Mechanical Engineering (ME) since 2015-16.

The infrastructure of the institute is excellent with state of art laboratories, digital library, Wi-Fi campus to mention a few which are as per norms of AICTE. Regular feedback is taken from stakeholders for overall improvement.

The college offer additional course beyond syllabus to explore the students towards the Industrial requirement by conducting courses such as CREO, Auto cad, C++, Java. The industry visits are frequently conducted to bridge the gap between industry and institutes.

Suryodaya college of Engineering and Technology (SCET) Nagpur has established the quality in teaching learning process adhering to the ethical standards and professional integrity to enhance the satisfaction level of students and parents and hence Suryodaya college of Engineering and Technology (SCET), Nagpur has become a preferred destination for the aspiring students.

The College has been accredited with B Grade from NAAC in the Year 2017. The Institution has functioning IQAC and it consistently endeavours for the quality improvement with the assistance of Teaching and Non-Teaching Staff, Students and Stakeholders. We are happy to submit the AQAR for the academic year 2017-18 for your kind consideration.

COMPOSITION OF INTERNAL QUALITY ASSURANCE CELL (IQAC)

- 1 Chairperson : Dr. Santosh Chede, Principal, SCET
- 2 Members from the Management : Mr. Ranjit Chafle, Secretary, NRDRS, Nagpur.
Mr. Abhishek Belkhede, Director, SCET, Nagpur
- 3 Teachers : Prof. V.G. Parhate, Vice. Principal
Prof. V. Nagpurkar, HOD First Year
Prof. V. Thakare, HOD Computer Engg.
Prof. A. Bhambhulkar, HOD Civil Engg.
Prof. S. Birthariya, HOD Electronic & Telecommunication Engg.
Prof. P. Titarmare, HOD Electrical Engg.
- 4 Administrative Officer : Mr. Manoj Guhe
- 5 Nominees from Students : Mr. Pranay Duradkar IV/ME
: Ms. Ashwini Bandebuche IV/CE
- 6 Nominees from Alumni : Mr. Shashank Tiwari, TCS
Ms. Dipali Chaudhary, Infosys
- 7 Nominees from Employers/
Industrialist/Stakeholders : Dr. Sanjay Raghatate, Director, Oxfore Speakers Academy, Nagpur.
Shri. Jeevan Ghime, Hon. Secretary, Butibori MIDC Association
Dr. Chandrashekhar Gillurkar ,Director Gillurkar Hospital
- 8 Co-ordinator : Prof. R. R. Wayzode, HOD Mechanical

The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

1. Details of the Institution

1.1 Name of the Institution

Suryodaya College of Engineering and Technology

1.2 Address Line 1

Survey No. 117 / 1 & 117 / 3

Address Line 2

Vihirgaon, Umrer Road

City/Town

Tah.& Dist Nagpur

State

Maharashtra

Pin Code

441204

Institution e-mail address

scetngp@gmail.com

Contact Nos.

07103-276283, 09423612120

Name of the Head of the Institution:

Dr.Santosh D. Chede

Tel. No. with STD Code:

07103-276283

Mobile:

09860233020; 09423612120

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHCOGN 18879)

1.4 NAAC Executive Committee No. & Date:
(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

1.5 Website address:

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B	2.08	2017	5 Years
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC : DD/MM/YYYY

1.8 AQAR for the year (for example 2010-11)

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011))

- i. AQAR _____ (DD/MM/YYYY)4
- ii. AQAR _____ (DD/MM/YYYY)
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (DD/MM/YYYY)

1.10 Institutional Status

University State Central Deemed rate

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.12 Name of the Affiliating University (*for the Colleges*)

RTM Nagpur University,
Nagpur

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and
Community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: No. Faculty

Non-Teaching Staff Students Alumni Others

2.12 Has IQAC received any funding from UGC during the year?

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State

Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

- Regular time to time meetings with staff members are initiated to formulate the plan of action. The implementation of action plans are reviewed in the next meetings.
- Audit to monitor and ensure the quality of students' activities, department activities and staff members for periodic assessment for timely, efficient and progressive performance of academic task.
- Encouraging students for Industrial Visits to understand & gain the knowledge of new concepts and Innovations.
- IQAC strengthened the campus placement process through Memorandum of understanding with various industries to build up the Industry-Institute Interaction at various levels
- Students are encouraged to participate in different competitions and events as Sport/NSS/Cultural activity, etc.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality Enhancement and the outcome achieved by the end of the year 2018

Plan of Action	Achievements
To do Academic Audits during Semester	Principal as a Steering Committee In charge of Academic Audit Committee Conducted regular Audit to ensure completion of syllabus, Assignments, Semester, Projects, Result etc.
Research Activities	Teaching faculty members were encouraged to register for Research (PhD) <u>07</u> faculty registered.
To increase the students participation in various competitive examinations	Students were given Counseling to improve their performance in competitive examinations like GATE, MPSC, MAHAGENCO, MAHATRANSCO State/Central Govt Banking Sector Exams, etc.
To Improve Students Results	Various practices such as Class Test, Question Banks, Assignments and Remedial Classes were conducted for Slow Learners.
Encourage Students for Higher Studies	No. of Student doing Higher Study is <u>14</u> .
Encourage Students to do Live/Industry oriented Projects	An Entrepreneurship development program has been organized for the benefit of students and all assistance has been provided for innovative Projects for EDC.

** Attach the Academic Calendar of the year as Annexure.*

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

AQAR is reviewed and approved after minor correction

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	---	---	---	---
PG	---	---	---	---
UG	05	---	05	---
PG Diploma	---	---	---	---
Advanced Diploma	---	---	---	---
Diploma	02	---	02	---
Certificate	---	---	---	---
Others	---	---	---	---
Total	07	---	07	---

Interdisciplinary	---	---	---	---
Innovative	---	---	---	---

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options:-

Elective option

Pattern	Number of programmes
Semester	05
Trimester	---
Annual	---

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

**Please provide an analysis of the feedback in the Annexure*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Revision carried out at University level

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	91	79	11	01	-

2.2 No. of permanent faculty with Ph.D. 01

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	07	0	0	0	0	00	-	-	07	00

2.4 No. of Guest and Visiting faculty and Temporary faculty 02 02 -

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	17	13	
Presented	28	04	06
Resource Persons	01	-	-

2.6 Innovative processes adopted by the institution in Teaching and Learning:

Healthy interaction between students and faculty which goes beyond the classrooms; Learning beyond curriculum.

1. 24X7 Wi-Fi enabled campus providing for technology access.
2. Incentives for Fast learners- Toppers Award, Certificate of Academic Excellence & Issue of Free Book bank facility from Library
3. Well-equipped Internet Resource Centre and computer lab.
4. Presentations/animations/videos are regularly being used apart from regular conventional black board teaching.
5. Group discussions, Case studies and problem based learning practices.
6. Continuous evaluations through projects, presentations and quizzes, etc.
7. Outside classroom activities for wholesome development of mind and acquiring skills.
8. Industrial Visits & In-Plant Training.

2.7 Total No. of actual teaching days during this academic year 206

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

As per RTMNU

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

-	-	-
---	---	---

2.10 Average percentage of attendance of students 81%

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
Mechanical Engineering	97	10.30%	42.08%	40.4%	-	92.78%
Civil Engineering	35	17.14%	71.42%	-	-	88.57%
Computer Engineering	26	15.38%	96.15%	3.85%	-	92.30%
Electronics & Telecommunication Engineering	10	-	80%	-	-	80%
Electrical Engineering	38	13.16%	68.24%	7.9%	-	89.47%

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Regular academic monitoring of all the classes
- Monthly syllabus coverage
- Twice in semester student feedback
- Academic Audit
- Hygienic classroom maintain

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	Nil
UGC – Faculty Improvement Programme	Nil
HRD programmes	20
Orientation programmes	16
Faculty exchange programme	Nil
Staff training conducted by the university	01
Staff training conducted by other institutions	07
Summer / Winter schools, Workshops, etc.	06
Others	21

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	39	--	--	--
Technical Staff	15	--	--	--

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

College has been encouraged to have a research component in the existing curriculum.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	-	-
Outlay in Rs. Lakhs	-	-	-	-

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	-	-
Outlay in Rs. Lakhs	-	-	-	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	18	--	--
Non-Peer Review Journals	--	--	--
e-Journals	03	--	--
Conference proceedings	21	01	--

3.5 Details on Impact factor of publications:

Range

0.5-2

Average

0.7

h-index

Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	-	-	-	-
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects (other than compulsory by the University)	-	-	-	-
Any other(Specify)	-	-	-	-
Total	-	-	-	-

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	--	01	--	--	01
Sponsoring agencies	--	Self-Finance	--	--	Self-Finance

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From funding agency From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	01
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

3.17 No. of research awards/ recognitions received by faculty and research fellows Of the institute in the year

Total	International	National	State	University	Dist	College
-	-	-	-	-	-	-

3.18 No. of faculty from the Institution who are Ph. D. Guides

and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level

National level International level

3.22 No. of students participated in NCC events:

University level	<input type="text" value="01"/>	State level	<input type="text" value="-"/>
National level	<input type="text" value="-"/>	International level	<input type="text" value="-"/>

3.23 No. of Awards won in NSS:

University level	<input type="text" value="-"/>	State level	<input type="text" value="-"/>
National level	<input type="text" value="-"/>	International level	<input type="text" value="-"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="-"/>	State level	<input type="text" value="-"/>
National level	<input type="text" value="-"/>	International level	<input type="text" value="-"/>

3.25 No. of Extension activities organized

University forum	<input type="text" value="-"/>	College forum	<input type="text" value="04"/>		
NCC	<input type="text" value="-"/>	NSS	<input type="text" value="02"/>	Any other	<input type="text" value="-"/>

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- **Blood Donation Camps** - organized once in a year.
- **Environment awareness camps** – The Environment Society in College conducted awareness programmes to encourage the College community to reduce the use of plastic and paper on campus. They have also undertaken an initiative to sterilize dogs on campus. They actively encourage paper recycling by all members of the College
- **Medical camps** – It is conducted annually for the employees of the College. Qualified doctors are brought for checkups and necessary prescription are given for treatment
- **Orphanage and Old Age home visits** - are done twice a year.
- **Road safety Awareness Camps**
- **Eye Check-up Camp & Spect distribution in nearby Villages.**
- **Tree Plantation.**

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	20300 sq. m.	-	-	20300 sq. m.
Class rooms	24	-	-	24
Laboratories	49	-	-	49
Seminar Halls	05	-	-	05
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	05	-	-	05
Value of the equipment purchased during the year (Rs. in Lakhs)	28,03,153/-	-	-	28,03,153/-
Others	-	-	-	-

4.2 Computerization of administration and library

- Library has been completely computerised enabling students and faculty to access books, journals and reference materials.
- DELNET

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	8358	3165645/-	743	389144/-	9101	3554789/-
Reference Books	1123	355694/-	78	48069/-	1201	403763/-
e-Books	60	-	35	-	95	-
Journals	54	126817/-	44	82714/-	98	209531/-
e-Journals	Delnet	16500/-	Delnet	13571/-	Delnet	30071/-
Digital Database	Softlib	100000/-	-	-	Softlib	100000/-
CD & Video	418	-	-	-	418	-
Others (specify)	457	161580/-	57	34866	514	196446/-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart - ments	Others
Existing	330	13	32 Mbps	01	01	07	05	01
Added	103	---	---	---	---	---	---	---
Total	433	13	32 Mbps	01	01	07	05	01

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

College has taken the initiative for Digitization and implementation of a paperless office. Training for which was given to all stakeholders.

4.6 Amount spent on maintenance in lakhs :

i) ICT	4,00,642/-
ii) Campus Infrastructure and facilities	37,42,520/-
iii) Equipments	14,74,452/-
iv) Others	-
Total :	56,17,614/-

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- ✓ Complete information about support services are available on college website.
- ✓ Information about support services provided during counselling at institute level as well as department level.
- ✓ Information is also disseminated through class teacher and teacher guardian.
- ✓ Student section circulates various notices regarding scholarships and other schemes.
- ✓ Circulars and notices put on notice board.
- ✓ CRT Courses

5.2 Efforts made by the institution for tracking the progression

- Institute prepares the activity calendar and accordingly tracks the progression. Institute has Teacher Guardians, Class Teachers, Mentors.
- Alumni meets are organised.
- Academic Audit is conducted every Semester.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
754	-	-	166

(b) No. of students outside the state

-

(c) No. of international students

-

No	%
551	73.08

Men

No	%
203	26.92

Women

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
216	137	22	470	02	847	152	130	12	460	00	754

Demand ratio **Nil**

Dropout % **4.62%**

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

CRT, GATE FORUM.

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT
 IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

- ✓ Career Awareness Program conducted Weekly (EESDP)
- ✓ Internship fair.
- ✓ Study skills workshops for students.
- ✓ CV workshop was conducted to help students to write their CVs to improve their chances of getting recruited.
- ✓ Interaction with pass out students employed in good company.
- ✓ Counsellors to Counsel Students for Improvement in Studies.
- ✓ TG encouraged students to convey their Grivences.

No. of students benefitted

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
13	180	114	12

5.8 Details of gender sensitization programmes

- Women Cell organized several programmes to enhance the confidence level of girl students for their empowerment in the society.
- International Women's Day was celebrated which is an opportunity to appreciate the remarkable contribution of women to our society.
- Personal and academic related problems of women are counselled and solved.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events Sports :

State/ University level National level International level

Cultural:

State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	-	-
Financial support from government	-	-
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: **Nil**

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

- To be recognized among the leading institutions, imparting quality engineering education to produce world class professional who possess knowledge, skill & necessary value that help them to face challenges at global level.

Mission

- To impart quality technical education which is in line with the latest global requirement & to develop all round abilities of the student.

Objectives

- To promote & stimulate the educational quality to bring high moral standards.
- To incorporate the latest technical art & skill development modules along with University curriculum.
- To provide an absolute & complete education without any religious bias.
- To create self-discipline among all the students.
- To provide the right conditions for new & imaginative ideas for research.
- To provide good training to the students for better employment prospects.
- A majority of students are exposed to Industrial training knowledge about the working of an industry.
- The Institution seeks to make technical Engineers with sound technical knowledge and also with achievement of desire, moral principles and social responsibilities.

Distinct characteristics of the college

- Committed, customized and prompt staff members.
- Provision of inspiring working conditions and inducement incentives.
- Inter-disciplinary approach towards teaching.
- Dust free and green campus.
- Effective teaching-learning process.

6.2 Does the Institution has a management Information System

Yes, The Institute has MIS to take care of activities related to admission, administration and academic with office management.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

The college is affiliated to the RTMNU, Nagpur and follows the curriculum and syllabi prescribed by it. However, the college organizes guest lectures, seminars, industrial visits and various training programmes to supplement the curricular.

6.3.2 Teaching and Learning

- Teaching plan for each subject is prepared by the faculty concerned well in advance and adherence to the lesson plan is duly checked by respective HODs.
- HODs conduct a meeting with the faculty members before commencement of the semester and subject allocation is made.
- Class time tables are prepared and displayed in all notice boards. Every faculty member prepares a course file which contains lecture notes, schedule, assignments, old question papers, content beyond syllabus, unit wise question papers etc.
- Lab manuals are prepared and supplied to the students at the beginning of semester. Review meetings are arranged periodically to review coverage of syllabus. Depending upon necessity, time tables are changed and modified in order to complete syllabus within the stipulated time.
- Faculty use teaching aids like models, PPTs and charts wherever necessary.
- Practical orientation is insisted in form of Industrial Visits, Guest Lectures, Workshops, Seminars, Projects and Mini Projects.
- Mentoring and Remedial classes are given to slow learners as a part of Teaching and Learning Process.

6.3.3 Examination and Evaluation

- Continuous assessment and evaluation is carried out.
- Internal assessment of theory subjects is based on Assignments, Class Test and PUT I, PUT II.
- Internal Marks are calculated on the basis of Assignment, assessment Test and Attendance Percentage.
- University conducts semester end exams in both theory and labs and arranges evaluation.

6.3.4 Research and Development

- Research has been considered as an important integral part of the academic endeavors in our College.
- Many Seminars and workshops are organized by the College to provide expert information on research methodology.
- The College promotes faculty participation in research by granting them leave, helping them in participation of faculty improvement programmes, FDP, Seminars etc.
- Faculty members and Students are motivated to Publish their research paper in reputed National and International Journals.

6.3.5 Library, ICT and physical infrastructure / instrumentation

Library:

- Library has sufficient e-journals which include DELNET & NPTEL etc. and sufficient back volumes for all the departments. Digital library facilities with National and International journals are also provided. Library administrations like issue / return of books are maintained through commercial Softlib library software. The library building is enabled with Wi-fi facility. Every year, additional volumes of books are added based on the requirements from all the departments.
- Every class has one compulsory library hour / week for permitting the students to access the reference books and journals which augments the learning process. Apart from the central library, every department has a Department Library and NPTEL videos and animation for various subjects.

ICT:

- Class rooms & seminar halls pertaining each department are enabled with ICT tools.
- For every subject, power point presentation and animated videos are being prepared by the faculty members and it is used for taking classes in an interactive way.

Physical infrastructure/instrumentation:

- The campus is monitored for maintenance of academic infrastructure and other facilities.
- A dedicated team functions exclusively for maintaining the green ambient in Campus.

6.3.6 Human Resource Management

- ✓ As per AICTE and RTMNU norms faculty recruitment is forwarded to the requirement committee consisting of President, Principal, Vice-Principal, External subject experts nominated by University.
- ✓ Faculty and Staff are encouraged to participate in self-development programmes.
- ✓ Administration extends faculty, staff and students with necessary and relevant support to optimize their work.
- ✓ Faculty are supported financially to attend conference, Workshops & FDP's Conducted outside the Institute.

6.3.7 Faculty and Staff recruitment

As per UGC and University guidelines.

6.3.8 Industry Interaction / Collaboration

- ✓ The institute always initiates to establish relationship with industries by MoU's internship, Industrial Visits, guest lectures etc. for development of Students.
- ✓ EDC takes care for enhancing Industry-Institute relationship.

6.3.9 Admission of Students

- The admissions of the students are strictly followed as per rules and regulation based on the Government of Maharashtra and AICTE norms
- This consists of single window system procedure for the government quota students and through the consortium of self financing engineering colleges for the management quota students.

6.4 Welfare schemes for

Teaching	YES
Non teaching	YES
Students	YES

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done

 Yes No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes		Yes	IQAC
Administrative	Yes		Yes	IQAC

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes Yes No

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Not applicable.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Not applicable.

6.11 Activities and support from the Alumni Association

- ✓ Interaction with alumni through annual alumni meetings.
- ✓ Involvement of alumni in the Governing Body of the college
- ✓ Special lectures, seminars and workshops by alumni are arranged on regular basis.
- ✓ Memorial lectures and scholarships, awards, prizes and medals instituted by alumni.

6.12 Activities and support from the Parent – Teacher Association

Parents-Teacher Meetings are Conducted Periodically to convey Student's progress.

The parents get an opportunity to interact with teaching faculty, HOD's, T.G. to know about their ward's performance & Study.

6.13 Development programmes for support staff

Some orientation and training programmes are offered.

6.14 Initiatives taken by the institution to make the campus eco-friendly

1. Well-maintained and environment friendly campus.
2. Tree plantation to mark special occasions.
3. Rain Water Harvesting.
4. Green Audit.
5. Solar panels on the roof are used as green energy.
6. Constant effort to minimize waste generated in the labs.
7. Vermi composed.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Faculty concerned for every subject explains their objectives and outcomes.
- Topics are covered beyond the curriculum in both theory and practical to give wider knowledge base to the students.
- Contents for preparation are made available to all the students.
- All hand-outs with lecture plan, assignment questions and references are distributed to the students at the beginning of the semester.
- Regular monitoring of academic activities is done through College Academic Monitoring Committee such as Class Monitoring committee meetings which are held in every semester. HODs monitor topics taught every day, Close monitoring of course coverage is ensured through frequent meetings of HOD with faculty members.
- A very effective and regular monitoring of attendance of students is followed to improve the attendance percentage.
- Remedial classes and bridge courses to make up for weak and slow learners.
- Student's feedback collection on individual subject teacher in every semester is obtained
- Training & Placement Cell to guide the students in their campus placement. Attitude building is taught to the students to ensure appropriate attitude for lifelong learning
- Teachers as guardians are allotted for every 15-20 students for well-being.
- Parent's meets are conducted about the performance of students after every internal examination.
- Industrial visits are regularly arranged every semester to get industrial depth knowledge.
- Guest Lectures are regularly arranged to bridge gap between Institute and Industry.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Action taken Report (ATR):

- Digitization is underway.
- Tree plantation programs are conducted and 78 Plants planted successfully till date.
- E-file system has been implemented successfully in Administration office.
- Workshops have been conducted for Staff and Faculty development.
- Student and Staff welfare schemes are continued.
- Counselling sessions are available.
- NSS and Jivan Surakasha Prkalp are jointly conducted survey to make 'Accident free Nagpur City'.
- Campus placement drive has been conducted by various 13 companies and 114 students got offer letter from various Departments.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

Best Practice – I

Title of the Practice: Promotion of Research

Goal of this practice: The main focus is to inspire the faculty to pursue higher studies and promote for Research in order to improve their skills and for that several efforts are made by the management of the college.

The Context:

- Incentives are paid to faculties for publishing research papers in International Journals and Conferences.
- Faculty is motivated for attending the workshops, conferences, seminars by paying Registration fee.
- After the completion of Ph.D. program significant increase in the pay is given.

Impact of the practice:

- Due to efforts taken by the Management, several staff members are motivated to register for Ph.D. program.

Sr. No.	Name of PhD Registered Faculty's
1.	Prof. V. G. Parhate
2.	Prof. Rasika Manapure
3.	Prof. A. Bhambhulkar
4.	Prof. Vijay Nagpurkar
5.	Prof. Sangeeta Itankar
6.	Prof Amol Musale
7.	Prof. Manoj Baseshankar

- Publication of research papers in reputed journals with high impact Factor motivates the faculty in research.

Best Practice- II

Title of the Practice: Student Motivation

Goal of this practice: To encourage students for participating in curricular and co-curricular activities.

The process:

The students are likely to be good in academics and should have good at industrial experience. Apart from academics, they are also required to update their knowledge with the latest developments in technology related to their research field.

- Along with good academic record, the students need to develop leadership qualities and good communication skills and soft skills.
- For these aspects, experienced faculties and prominent personalities from various reputed institutes and industries are invited to impart the practical exposure to the students through workshops, seminars, guest lectures, etc.
- The students are motivated to share their ideas with the outside world by presenting their work in National / International Journals & Conferences.

Impact:

- National Seminar on ‘Recent Advances in Engineering and Technology’ has been conducted in Association with Research Cultural Society and Publication IJRCS on 27 and 28 March 2018.
- Three University Toppers.

Best Practice No- III

Title of the Practice: Training & Placement

Goal of this practice:

- To persuade the students to possess a sound technical knowledge in the area of technical research.
- To enhance the programming skills of students.
- To help students excel in language and communication skills.
- To prepare the students for different levels of selection process such as group discussions and one-to- one interviews.
- To help boost the students’ confidence level through soft training skills.
- To groom the students to the corporate level
- To ensure that all eligible students are employed by the end of the final year of study.

Impact:

13 Company Visited and 114 students got offer letters from various departments.

7.4 Contribution to environmental awareness / protection

- The campus is maintained as smoke free by parking car & two wheeler in separate parking area and plastic pollution free by continuous education to the students.
- The college is implementing energy conservation activities by utilizing solar energy and minimum utilization of conventional energy resources.
- The practice of rain water harvesting, food waste management techniques are being followed in the campus.

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strengths:

- ✓ Dedicated and committed Management.
- ✓ Devoted, dedicated, determined and disciplined faculty members.
- ✓ Adequate infrastructure and excellent Teaching-Learning environment.
- ✓ Well-equipped laboratories.
- ✓ Consistent academic performances in the University examinations.
- ✓ Departmental student's Forums for overall development of students.
- ✓ Students are rewarded at various inter collegiate competition.
- ✓ Students are provided with holistic engineering education including personality development, placement training, communication skills etc.
- ✓ Meritorious students are rewarded.
- ✓ Need based scholarship is also given to the economically weaker students.

Weakness:

- ✓ The socio-economic background of many of the students admitted in the department is responsible for poor language competence. This leads to an unsatisfactory level of comprehension and communication.
- ✓ The institute needs to strengthen the research activities by taking more initiatives for formation of Centre of excellence.

Opportunity:

- ✓ Strengthen industry institute interaction to give better industrial exposure to the students.
- ✓ Improve the quality of research publications.
- ✓ Entrepreneurship development.
- ✓ Innovations and creativities can be provoked through interdisciplinary research..

Challenges:

- ✓ Retention of qualified and competent faculty.
- ✓ To collaborate with reputed colleges / universities, Industries to promote student and faculty exchange programs.
- ✓ Tough competition from IIT, VNIT, Govt. College of Engineering. and autonomous colleges in the region.
- ✓ Campus placement in core engineering companies.

Plan of Institution for Next Year:

- ✓ To achieve higher placement as compared to previous year.
- ✓ To increase MoU's with Industries.
- ✓ To increase R & D activities.
- ✓ To organize National Seminars/ Workshops/ FDP's for Students and Faculty.

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

Annexure I: Academic Calendar 2017-18



Suryodaya College of Engineering and Technology, Nagpur



Session 2017 - 18

B.E. III /V /VII SEMESTER (ODD SEM)

Academic Calendar

Month	Mon	Tue	Wed	Thu	Fri	Sat	No. of Working Days	Activities
JUNE				1	2	3		3: Display of Time Table 5:Registration & Commencement of Classes 24: Forum Formation. 26: Ramjan id
	5	6	7	8	9	10	6	
	12	13	14	15	16	17	6	
	19	20	21	22	23	24	6	
	26	27	28	29	30		5	
JULY						1	1	6: Display OF Monthly Attendance & Display of Tentative Detention List 24:Display of ASSIGNMENT 1 24 to 31: Guest Lecture. 31: Student Feed back 1
	3	4	5	6	7	8	6	
	10	11	12	13	14	15	6	
	17	18	19	20	21	22	6	
	24	25	26	27	28	29	6	
	31						1	
AUG		1	2	3	4	5	5	5: Submission of Assignment 1 7: Display Monthly Attendance & Tentative Detention List 1 7 TO 11: PUT 1 Exam. 15: Independence Day 17:Parsi New Year 18: Display of PUT 1 Result 25: Ganesh Chaturthi 25 to 29: NSS Social Acivity 30: Mahalakshmi Puja
	7	8	9	10	11	12	6	
	14	15	16	17	18	19	4	
	21	22	23	24	25	26	5	
	28	29	30	31			3	
SEPT					1	2	1	2: Bakari id 6:Display of Monthly Attendance& Display of Tentative Detention list 9:Teacher-Parents Meet 15 TO 16: SAMBHAV 18 to 23: WORKSHOP 20: Pitru moksha Amawasya 21:Display of Assignment 2 30: Vijaya Dashami or Dasara
	4	5	6	7	8	9	6	
	11	12	13	14	15	16	6	
	18	19	20	21	22	23	5	
	25	26	27	28	29	30	5	
OCT	2	3	4	5	6	7	5	2: Mahatma Gandhi Jayanti 3: Display of Monthly Attendance & Display of Final Detention List 4: Display of Assignment 3 4: Last Teaching Day 5 to 7: Internal Submission 6: Student Feedback 2 9 to 13: PUT 2 Exam. 16: Display of PUT 2 Result 16: Submission of Assignment 3 17 to 18: Faculty Training Programming 19-30: Diwali vacation
	9	10	11	12	13	14	6	
	16	17	18	19	20	21	3	
	23	24	25	26	27	28		
	30	31						
TOTAL DAYS							109	



Session 2017-18

B.E. II/ IV /VI /VIII SEMESTER (Even SEM)

Academic Calender

Month	Mon	Tue	Wed	Thu	Fri	Sat	No. of Working Days	Activities
DEC					1	2	1	1: ID-E-MILAD 8: Display of Time Table 11: Commencement of Classes 25:CHRISTMAS
	4	5	6	7	8	9	6	
	11	12	13	14	15	16	6	
	18	19	20	21	22	23	6	
	25	26	27	28	29	30	5	
JAN	1	2	3	4	5	6	6	2:Display of Assignment No.1(3 Unit) 5 to 6: Sports 9: Assignment 1 Submission 12 to 13 : Jalsa 18:Project Progressive Seminar 1 26: REPUBLIC DAY 29 TO 2 Feb: PUT 1
	8	9	10	11	12	13	6	
	15	16	17	18	19	20	6	
	22	23	24	25	26	27	5	
	29	30	31				3	
FEB				1	2	3	3	2: Student Feedback 1 3:Display of Assignment No.2(3 Unit) 5: Display Monthly Attendance 1 & Tentative Detention List 1 6: Display Result PUT 10: Submission of Assignment No.2 13: MAHASHIVRATRI 15:Project Progressive Seminar 2 19:SHIVAJI JAYANTI 22: Final Submission of Project 27 to 28 : TECHTRENDS
	5	6	7	8	9	10	6	
	12	13	14	15	16	17	5	
	19	20	21	22	23	24	5	
	26	27	28				3	
MAR				1	2	3	2	2: HOLI 5:Display Monthly Attendance 2 & Tentative detention list 2 14:Display of Assignment No.3(6 Unit) 21:Submission of Assignment No.3 24: PARENTS MEET 29 MAHAVIR JAYANTI 30:GOOD FRIDAY
	5	6	7	8	9	10	6	
	12	13	14	15	16	17	6	
	19	20	21	22	23	24	6	
	26	27	28	29	30	31	4	
APRIL	2	3	4	5	6	7	6	2 to 6: PUT 2 6: Final Student feedback 6:Display Final Monthly Attendance & detention list 9: Display result PUT 2 & Internal Marks 10: LAST TEACHING DAY(tentative) 11 to 16 :Internal Practical Exam 14: DR.B.R.AMBEDKAR JAYANTI 30: BUDHA PORNIMA
	9	10	11	12	13	14	2	
	16	17	18	19	20	21	6	
	23	24	25	26	27	28	6	
	30							
TOTAL DAYS							97	

Annexure II: Student Feedback Format



Suryodaya College of Engineering & Technology, Nagpur



STUDENTS FEEDBACK

2017-18

Semester :- _____

Branch :- _____

Sr. No	Description	Subject name and Code				
		IM	AIP	EC-III	ELE-II	ELE-III
Course Contents						
1	Has the teacher covered entire syllabus as prescribed by university ?					
2	Has the teacher covered relevant topics beyond syllabus?					
3	Effectiveness of teacher in terms of :-					
i	Technical content					
ii	Communication skills					
iii	Use of non print teaching aids					
iv	Availability beyond normal classes					
v	Co-operation to solve individual problems					
vi	Overall effectiveness					
4	How do you rate the contents of the curricular ?					
5	How do you rate lab facilities, if applicable?					
6	Average					

(Rating : 5-Excellent, 4- very good, 3-good, 2- Average,1- Below Average)