Yeshwantrao Chavan College of Engineering, Nagpur

Strategic Plan 2018-19 to 2022-23

Yeshwantrao Chavan College of Engineering, Nagpur is run by a trust Nagar Yuwak Shikshan Sanstha since 1984. The college is recognized by the Government of Maharashtra and is affiliated to the Rashtrasant Tukadoji Maharaj Nagpur University. The college is an approved institution by the All India Council for Technical Education, New Delhi, which is an apex body for regulating the technical education in India.

The college has a pleasant campus of 14 acres on the green hills of Wanadongri, Nagpur, and the ambience is perfect for the education purposes. The college boasts of experienced and committed faculty, state of art infra-structure including the library and computing facility. The Institute is a recognized center by RTM Nagpur University for Higher Learning and Research. The Institute has grown to become a center of excellence in engineering education and a preferred destination for parents, students and leading software & core companies for recruitment of students.

Vision

To become the most preferred institution providing innovative, research and value based, professional education for the society at large.

Mission

YCCE is committed to:

- · Attract best talent and create learning ambiance
- Practice Innovative teaching-learning & research
- Integrate Industry-Institute Collaborations
- Nurture students towards holistic Development and right career

Quality Policy

YCCE strives for excellence through continual improvement in teaching, learning and research.

YCCE Core Values

- Discipline
- Transparency
- Team Work
- Passion
- Professionalism

YCCE Punch Line

"Commitment Towards Excellence"

YCCE runs 09 undergraduate programs and 07 post graduate programs. The annual intake is 1020 at undergraduate level and 133 at post graduate level.

The curriculum implemented at YCCE for all UG and PG programs is designed by Yeshwantrao Chavan College of Engineering, Nagpur under the mandate given to it by University Grants Commission and RTM Nagpur University under the academic autonomy. The Scheme of Examination, the syllabi and the evaluation systems for all undergraduate and post graduate programs are designed, and executed by YCCE.

Five batches of UG and Seven batches of PG programs have successfully completed the curriculum under autonomy.

All departments of YCCE are recognized as approved research centers by RTM Nagpur University. Around 68 scholars are registered in various departments for doctoral research work. 40 scholars have submitted thesis to RTMNU for award of Ph.D., 63 scholars have completed their doctoral research successfully and have been awarded the coveted Doctor of Philosophy (Ph.D.) degree by RTM Nagpur University.

The current faculty position at YCCE is shown in the table below:

Cadre	2018-19	2019-20	2020-21	2021-22	2022-23
Professors	26	25	21	21	17
Associate Professors	50	46	38	37	30
Assistant Professors	168	167	190	254	281
Total	244	238	249	312	328

The Strategic Plan

The Strategic Plan of YCCE for 2018-19 to 2022-23 shall achieve the following 05 goals:

- Goal 1: Be among the preferred institutions in the country for undergraduate and post graduate studies in Engineering and Technology
- Goal 2: Promote research, consultancy, innovation, and entrepreneurship activities to address the future challenges and opportunities
- Goal 3: To create an environment for the students to succeed at their highest level through high quality academic programs, co-curricular and extra-curricular activities and community outreach programs
- Goal 4: Recruit, retain and enable a community of exceptional faculty and staff
- Goal 5: To establish and maintain facilities and infrastructure; governance and administration that support the achievement of the college's vision, mission and values
- GOAL 1: Be among the preferred institutions in the country for undergraduate and post graduate studies in Engineering and Technology

Objectives	Strategies	Action Plan			Outcomes		
			2018-19	2019-20	2020-21	2021-22	20
1.1 Benchmark the pedagogy with that of the top `tier I Institutions in	Encourage innovative teaching learning and assessment methods	Innovative T-L Methods (Flipped classroom teaching, Learning from Peers, Online examination, Open Book Test, Code Relay etc.)	Innovative T-L.:42	Innovative T-L.: 47	Innovative T-L.: 54	Innovative T-L.: 57	In
the Country	- N	MOOCS/ NPTEL Videos	MOOC: 3	MOOCs: 3	MOOCs: 3	MOOCs:4	N
_		Innovative Projects Pedagogy programmes (for Junior faculty)	Kalam Impact FDP	Kalam Impact FDP			lm
	Enhance faculty and student interaction with reputed institutions/organizations	Visiting Professor Scheme: 1 per dept. per year	07	03		(mm)	
	through training programmes, workshops and collaborative projects	No. of Joint Projects with Reputed Institutions= 50 per year	60	67	79	94	
		No. of Training Programme/ Workshops/STTP/FDP for faculty= 90% of faculty will attend it per year	97%	96%	98%	96%	
		No. of students to be sent to IIT/NIT for competitions= 10 students per dept. per year	52	67	85	107	
	Initiate internships and student exchange programmes at reputed Institutions	No. of students sent for credit transfer to reputed institutions= 10 students per year from 2019-20	00	00	00	00	
	Introduce finishing school programmes	Get Set Go, Functional English, Remedial grammar, Introduction to PL for non-CT/IT branches, CRT, Personality and communication development prog.	YES	YES	YES	YES	

						22		
1.2 Institutional brand building	Ensure quality assurance through annual quality assessment	St Statement - Artificia - Propositi Propositi		YES	YES	YES	YES	-
	Attain higher levels of achievements in co-curricular and extra -curricular activities	curricular and e	participating in co- extra - curricular NIT, State level, O per year	63	137	186	207	183*
	Inspire social commitment of staff and students through outreach activities	Extension Activit per year	ies (Social) = 10	23	21	30	26	17*
	Ensure accreditation/ranking by various agencies	NIRF ranking in 10	00 within 2 years,	134	139	149	185	
		NBA accreditati	on of all UG	06/07	06/07	06/07	06/07	07/07
		programmes (2 UG Prog. For 6	years in 3 years)	Nil	Nil	Nil	Nil	
		NAAC accreditation with A+ grade in next cycle			A++ (3.60)) validity (2022	to 2027)	
		CDW		YES	YES	YES	YES	YES
	decision making and establish structured feedback system from stakeholders for	Dept. Industry Bo	ard,					04
	curriculum enrichment activities	BOS, Academic Co	ouncil	YES	YES	YES	YES	YES
	*	IQAC, DQAC,		YES	YES	YES	YES	YES
	(Parent Meet,		YES	YES	YES	YES	YES
		Industry Conclave	•					
		Resource	Industry Expert	128	35	58	137	
	guides for Projects: 96 @ Resource Person for FDP/ STTP,	Person	Co-guides	95	96	91	74	102
	CDW: 41		for FDP/ STTP, CDW	33	41	62	87	76*
	Monitor the effective implementation of the strategic plan	HOD, DAM, Princi	pal, IQAC			YES		

*

	Evolve mechanisms to attract high quality students	Scholarship (Institute)	92	142	167	158	147
		Sem. Long industry internship	IT prog.	IT prog.	IT prog.	07 Prog.	07 Prog.
		Industry aligned professional elective	07	09	09	17	18
1.3 Promote	Create a wide alumni network	Alumni Portal,			YES		
alumni networking with students		Periodic alumni meets at various places	01 (USA)	: :		-	-
with students	Attract alumni support in placements	No. of Alumni to be invited for placement= 05 per year	01	03	05	04	04*
	internships for students	No. of students to be sent for internship in Alumni Company= 10 per year	03	06	03	13	12
	Enhance the involvement of alumni as resource persons for technical workshops and invited talks	No. of Alumni to be invited as Resource person for workshop/ Guest Lecture/other programme = 03 per dept. per year	23	42	37	49	43*-
	Strengthen alumni involvement as innovator or entrepreneur in the campus start-up ecosystem	No. of Alumni involvement as innovator or entrepreneur in the campus start-up ecosystem= 01 per dept. per year	02	02	01	03	03

GOAL 2: Promote research, consultancy, innovation, and entrepreneurship activities to address future challenges and opportunities.

Objectives	Strategies	Action Plan	2018-19	2019-20	2020-21	2021-22	2022-23
2.1	Increase the number of external and	No. of externally funded projects= 02,	1+5	0+4	1+8	0+3	0+7
Strengthen	internal research projects	Amt. up to 20L per dept. per year	68.91 L	34.99 L	25.19 L	3.28 L	18.11 L
research activities	`	No. of internally funded projects=03,	87	24	18	46	14*
activities		Amt. up to 3L per dept. per year	8.6 L	1.7 L	2.46 L	6.3 L	2.13 L
	Increase research publications and	No. of Faculty publications in	2018	2019	2020	2021	2022
	ensure the maintenance of quality	SCI/Scopus/refereed Journals=30% of	52/240=	45/244=	81/238=	53/249=	105/312=
		faculty per dept. per year	21.67%	18.44%	34.03%	21.28%	33.65%
		No. of Faculty publications in other reputed Journals/Conferences=50%	137/240=	150/244=	35/238=	91/249=	155/312=
		of faculty per dept. per year	57.08%	61.47%	14.7%	36.54%	49.67%
	Encourage staff and students to	No. of STTP/FDP organized: 1	1 W: 8	1 W: 10	1 W: 16	1 W: 12	1 W: 6
	organize/attend workshops, conferences, invited talks, seminars	[] 공항 100mm 10 1 - '' 120mm 10 10 10 10 10 10 10 10 10 10 10 10 10	2 W: 2	2 W: 3	2 W: 2	2 W: 3	2 W: 2
	etc.	No. of Seminar/Conference	1 NC	1 NC	1 IC	2 IC	2 IC
	organized= 1 NC per year an in 2 years	organized= 1 NC per year and 1 IC in 2 years			1 NC	1 NC	proposed. 01 NC
		No. of Guest Lectures/Invited talks organized=4 per dept. per year	34	42	47	51	27
		No. of Workshops organized= 3 per dept. per year	147	122	170	140	147
		No. of Workshop/Training Prog. Organized for support staff= 1 per dept. per year	07	27	07	08	14
	Continuously monitor and apply for	No. of proposals to be submitted to	24+13	22+20	58+28	34+16	35+12
	financial aids given by central, state	various funding agencies= 25 per	(Research				
	governments and various	year	+Non				
	international organizations		Research)				

		No. of Review Meetings for monitoring financial aids given by funding agencies (Director R&D + HOD) = 1 in 3 months			YES		
1	Become approved Research	No. of Ph.D. Completed	67	、72	96	105	109 、
1	center of universities	No. of Research Scholars to be	68/30=	61/29=	36/32=	30/36=	00/36*
1	1	registered= 1 per supervisor per year	2.26	2.1	1.12	0.83	
6	5	HoD must ensure registration of every Ph.D. faculty as supervisor within 2 years	30/67	29/72	32/96	62/105	65/109
	Visibility of research work to the outside world	Publication of Institution Journal quarterly	Yes	Yes	Yes	Yes	Yes
		Indexing the journal within 2 years		8		DOAJ, DOI Google Scholar	Academia, Cite Factor, J-Gate, Crossref
		Updating research portal every 2 months	Yes	Yes	No	Yes	Yes
2.2 Establish productive	innovation excellence focusing on	No. of Innovative projects undertaken= 1 per dept. per year	10	14	19	23	27
partnership between industry/ reputed		No. of Societal and economic important projects undertaken=2 per dept. per year	27	32	17	33	30
organizations for consultancy and internships		Paper writing and research methodology workshop = 2 per year	03	04	08	06	08
meminips	Establish consultancy cell and pursue consultancy activities	No. of Consultancy Projects= 1 per dept. per year Amount of Consultancy= 4 L per dept. per year	26.32 L	42.22 L	29.37 L	34.46 L	23.00 L
	Sign MoUs and establish industry institute linkages with reputed	No. of MoUs signed with industries=2 per dept. per year	30	15	53	80	82

7	industries and organization to undertake joint projects, training	No. of MoUs signed with Academic/ Research Institutions=1 per dept.	02	03	03	05	05
	and internships	No. of Joint Projects with Industries=4 per dept. per year	66	72	56	97	103
	=	No. of Joint Projects with Research Organizations=1 per dept. per year	08	06	05	07	09
		No. of Students undergoing Industry Internship= 10-20% per year	72	88	927	1591	1313
		No. of Faculty undergoing Industry Internship=1 per dept. per year	-			4	03 (15-16 to 17-18)
		No. of Training programme organized by industry person=1 per dept. per year	12	14	17	28	18*
*	Establish industry supported lab.	No. of Industry supported lab.=1 per dept. in 2 years	04	04	07	07	05
	Facilitate the development and	No. of IPR activities organized= 2	03	05	05	03	13
even and the manufacture and the same	rotection of intellectual property	No. of Patents filed=2 per dept.	10	10	36	35	20
ecosystem in the	rights	No. of Patents Published=1 per dept.	07	02	21	14	07 (Pub)
campus		per year	00	02	16	33	19 (Grant)
		No. of Copyrights submitted=10 per dept. per year	129/172	94/111	97/124	83/86	13/74*
	Development of Innovation Gallery	Addition of 10 innovative projects per year	12	-	-	25	
	Develop incubation and meet-up spaces	As per MSME BI and TBI guidelines		60	00Sq. feet		
	Conduct training programmes / workshops / events / competitions focused on innovation and	No. of Training programme organized on startups and entrepreneurships= 5 per year	06	11	09	17	04
	entrepreneurship	No. of Competition organized on startups and entrepreneurships= 1 per year		01	01	03	01

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GOAL 3: To create an environment for the students to succeed at their highest level through high quality academic programs, co-curricular and extra - curricular activities and community outreach programs.

Objectives	Strategies	Action Plan	~2018-19	2019-20	2020-21	2021-22	2022-23
3.1 Ensure quality teaching and learning	Streamlining academic processes	Finalization of academic and activity calendar at the start of session and periodic review	Yes	Yes	Yes	Yes	Yes
	Ensure OBE implementation	Periodic review and assessment of OBE Faculty training on OBE in every year	Yes	Yes	Yes	Yes	Yes
	Introduce and implement the	Faculty development prog on ICT=1	02	05	09	06	03*
	use of ICT for teaching and learning	Use of PPT in TL= 20-30 %,	Yes	Yes	Yes	Yes	Yes
		Use of Moodle website, MOOC	Yes	Yes	Yes	Yes	Yes
2	e.	Use of Impartus Software=2 per dept. per	Yes	-	-	-20	-
		Use of smart boards= 3 in each dept. per				(1994)	1 per dept.
	Empower students' personal and professional development through	No. of personality development prog=1 per dept per year,	07	08	10	13	17
	academic and professional advising, peer-to-peer mentoring	Participation in IIT/NIT/reputed organization=100 per year,	63	137	186	207	103*
	etc.	Implementation of shadow teaching in each dept.	Yes	Yes	Yes	Yes	Yes
	Regular audit on effectiveness of both UG & PG curriculum	Employer Feedback Alumni Feedback. Exit Feedback, Course Completion Report	Yes	Yes	Yes	Yes	Yes
	Strengthen the quality and impact	PG Mentor,	No	No	No	No	No
	of the M Tech programs	1 yearlong industry internship,	Yes	Yes	Yes	Yes	Yes
		No. of PG students placed=60%	41/47= 87.23%	42/42= 100%	47/49= 95.91%	42/48= 87.50%	/24*=

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	Enhance career guidance and	CRT,	1223	1155	1195	1224	1313
students for		Use of AMCAT,	Yes	Yes	Yes	Yes	Yes
successful placements	companies	1 Certificate course offered by each dept	00	00	00	01	01
and/or higher		Industry aligned elective=1-2 per dept.,	04	05	05	11	09
studies	industry relevant continuing education programmes	Industry/Site visits= 4 per dept. per year,	34	37	- 15	45	22*
		Use of software for Aptitude testing	Yes	Yes	Yes	Yes	Yes
	Train students to get admissions in top ranking institutions in India & abroad.	GATE/GRE guidance, Guidance on Competitive exams	92/139	86/115	100/134	97/137	/119
	Take measures to improve the student pass percentage by	Allotment of good faculty for difficult subjects,	Yes, Senior Faculties teaching to first year and second Year Courses				
	appropriately addressing the	More assignments for difficult	Yes	Yes	Yes	Yes	Yes
	related issues	Remedial classes for slow learner,	Yes	Yes	Yes	Yes	Yes
		sharing LRM through Moodle	YES	YES	Whats	app Groups, E	mail
		Imparting domain knowledge by dept. 15 days before visit of co.,	Yes	Yes	Yes	Yes	Yes
		No. of students to be placed in core	76/448=	60/377=	82/373=	144/446	136/394
		co.=20% of eligible students from core branches	16.96%	15.91%	21.98%	=32.28%	=34.51%
		No. of students with package of Rs. 5	32/1248=	38/1115=	47/1193=	105/1235=	124*/91
		Lakh and above=5% of eligible students	2.5%	3.4%	3.9%	8.5%	13.599
		Overall placement=80% of eligible	806/1248=	835/1115=	847/1193=		730*/93
	72-12-13-13-13-13-13-13-13-13-13-13-13-13-13-		64.58%	74%	71%	74%	80*
3.3 Develop a culture to	Motivate student projects relevant to society and to provide	1-2 per dept. per year	32	27	15	29	34
serve the society	Arrange inspirational activities	No. of Community activities undertaken =2 per dept. per year	12	21	06	09	14

3.4 Provide an	Providing Value added courses	4 courses per dept. per year	20	22	25	32	14*
environment for the holistic development of students	Expand extra-curricular, co- curricular activities and club activities	Departmental student forum, NSS, Rotary Club, other NGO	Yes	Yes	Yes	Yes	Yes
students	Enhance department association and professional society activities	Professional Society Chapter=1 per dept.	Yes	Yes	Yes	Yes	Yes
	Develop counseling center to address students' psychological and emotional issues	Psychological Counselor, Meditation through YOGA	Yes	Yes	Yes	Yes	Yes
	Empower the student council to discuss common problems of students and ensure its solution	Interaction with Student Council= 1 per sem. And display of ATR	Yes	Yes	Yes	Yes	Yes
	Effective grievance mechanism to address grievances Redress all	Grievance redressal committee and follow up of grievances	Yes	Yes	Yes	Yes	Yes
	Interaction with Role model	1 per year				22	

GOAL 4: Recruit, retain and enable a community of exceptional faculty and staff

Objectives	Strategies	Action Plan	2018-19	2019-20	2020-21	2021-22	2022-23
4.1 Ensure quality in intake of faculty and staff	Recruit faculty and staff through a rigorous screening process evaluating their capability and interest	Screening Test, Selection Panel, Interview with Demo Offering higher pay scale to deserving candidate	Yes	Yes 、	Yes	Yes	Yes
	Establish norms for career advancement in tune with AICTE guidelines	CAS as per University/UGC /AICTE guidelines in every 2 years	NO	NO	NO	NO	YES
	Arrange induction programme for newly joined faculty	Every year at start of session	Yes	Yes	NO	NO	YES
4.2 Ensure No. of faculty and	Recruit faculty as per SFR	Faculty to be retained/replaced to meet SFR	Yes	Yes	Yes	Yes	Yes
cadre ratio as per guidelines of statutory bodies	Availability of faculty to meet cadre ratio	Promotion of faculty under CAS/Internal promotion scheme	NO	NO	NO	NO	YES
4.3 Ensure teaching load of faculty as per cadre	Proper distribution of teaching load	HoD's must allot teaching load as per 10:14:18 Relaxation to functional heads as per policy Verification by DAM	Yes	Yes	Yes	Yes	Yes
4.4 Encourage and enable faculty	Steps taken to improve teaching skills	Mentor Mentee Scheme, Periodic feedback-analysis and mentoring by HoD-DAM-Principal,	Yes	Yes	Yes	Yes	Yes
	Contribution towards development of LRM	No. of books/book chapters published=2 per dept. per year	22	16	16	15	12*

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	No. of monograms developed=1 per dept. per year,	09	19	07	12	09*
	New experimental set up=1 per dept. per year,	07	11	09	18	15*
	No. of models/charts developed=5 per dept. per year	67	45	04	07	07*
	Q-bank with solution set=8 per dept. per year	Yes,259	Yes,259	Yes,259	Yes,259	Yes,122*
Association with professional bodies	Ensure membership of professional bodies by each faculty,	Yes	Yes	Yes	Yes	Yes
	No. of programme of professional body organized=1 per dept. per year,	12	17	21	27	31
	No. of faculty participation in professional body programme= 10% of faculty	27	31	37	43	47
Review and accommodate innovative teaching methodologies	No. of innovative teaching practice implemented=4-6 per dept. and 1 by each faculty. Feedback from students. Impact analysis and report to be prepared,	Yes,32	Yes,34	Yes, 35	Yes,39	Yes,38
	Presentation of case study to other faculty in the dept.	NO	NO	NO	NO	NO

	Form research groups & establish center of excellence	Formation of Thrust Area wise research group in each dept. No. of CoE= 1 per dept.	Yes	Yes	Yes	Yes	Yes
	Institute research promotion schemes to support higher education for faculty	QIP Policy, Study leave of 15 days	Yes	Yes	Yes	Yes	Yes
	Conduct regular skill up-gradation programmes for technical staff	TNA by HoD No. of skill up-gradation programmes for technical staff=1 per dept. per year	06	07	08	08	12
4.5 Facilitate welfare	Implement performance-based incentives, rewards and recognition	Best Teacher Award=1 per dept. per year	NO	NO	NO	NO	NO
measures for a rewarding		Incentive for publication in SCI Indexed Journals=Rs. 10000/- per publication	NO	NO	NO	NO	Yes
career		Incentive for Research grant received=3% of grant	Yes	Yes	Yes	Yes	Yes
	Conduct skill development programmes in advanced technology areas for faculty and technical staff		9	13	14	15	16
	Encourage faculty to promote entrepreneurship amongst students	Deputation of faculty to entrepreneurship awareness prog.=1 per dept. per year	Yes	Yes	Yes	Yes	Yes
		Organizing 2-3 entrepreneurship awareness prog per year Strengthening incubation activity through proper projects and interaction with industries	06	11	09	17	04*
	Implement attractive pay and other benefits for personal/ professional development	Promotion through CAS, Additional increments/incentives for professional excellence	NO	NO	NO	NO	YES

GOAL 5: To establish and maintain facilities and infrastructure; governance and administration that support the achievement of the college's vision, mission and values.

Objectives	Strategies \	Action Plan	2018-19	2019-20	2020-21	2021-22	2022-23
5.1 Achieve excellence in governance and administration through	Ensure meetings of statutory bodies, minutes and ATR	Meetings will be conducted as per statutory body norms Minutes will be prepared and circulated. ATR is prepared and communicated	Yes	Yes	Yes	Yes	Yes
trinough transparency, accountability, quality and trust	Establish well defined rules, policies and procedures.	Adherence to Service rules, Policies available on intranet Periodic review of policies and modifications if desired	Yes	Yes	Yes	Yes	Yes
	Ensure contribution of faculty towards excellence	AWL targets to be given by HoD at the start of session and continuous monitoring. Audit of AWL targets at the end of session Issue of appreciation and warning letters and mentoring APR submission and evaluation and directives for improvements	Yes	Yes	Yes	Yes	Yes
	Decentralization of powers and all- inclusive well defined organizational charts	Well defined organization chart, Deans, Registrar, CoE, DyCoE, HoDs, I Yr Coordinator, TPO, Decision through various statutory and non-statutory committees	Yes	Yes	Yes	Yes	Yes
	Provide financial powers to departments and manage its utilization with accountability and transparency	Financial Power to HoD=Rs. 50000/- per year and utilization as per established norms	NO	NO	NO	NO	NO

Celebrate and reward excellence in Felicitation on 15th August and 26th January Yes Yes Yes Yes innovation, leadership and initiative Yes Schedule of budget related activities Streamline the process of budgeting Yes Yes Yes to be published in the month of Yes Yes December for next session Review of budget proposed by dept. Continuous follow up with purchase dept of NYSS 6000 SQ. FT. Additional Space of 7500 Sq. Ft. is Additional Built up area required 5.2 Develop required for MSME BI and TBI project. and maintain good infrastructural 04 of Planning for Dept. upgradation of lab, 01 02 08 up-gradation Continuous facilities for lab/workshop requirements at par Development of new lab, undergraduate 86 99 86 99 with reputed National/ International 86 and post ICT enabled classrooms, graduate institutions 63 research related equipment's Enhancing research facilities education, and research Yes Yes Yes Yes Stock Verification **Every Year** Yes Report on working of equipment in April Maintenance of Equipment Yes Yes Yes Yes Yes every year Rain water harvesting, Plastic free Improve green initiative Yes Yes Yes Yes Yes campus, Optimum use of stationary Yes, 1785.54 sq.ft Increase reading room capacity by 2000 Improve library facilities- print and digital resources, both at central and sq. ft. within 2 yrs. No. of computers in digital section=100 40 50 50 department libraries. 40 40 in 2 years No. of e books=100 per dept. per year 16540 17883 15804 9765 16280

	<u> </u>					
Upgradation of existing computing facility, Improve		194	43	12	575	NIL
Internet, WiFi and Networking	Ensure maximum use of open-source	10	12	17	20	20
	software's (5 per dept.),					
	Internet = 200 mbps,	200 MBPS	400 MBPS	400 MBPS	1 GBPS	1 GBPS
×.	WiFi {24 x 7) = Campus wide, Hostel,	Yes	Yes	Yes	Yes	Yes
	Canteens					
Enhance facilities for sports, arts and	Creation of indoor sport facility and	NO	NO	NO	NO	NO
recreation, with time extension	development of recreation club					
beyond regular working hours						
	Display of schedule for sports activities	Yes	Yes	Yes	Yes	Yes
A full-fledged maintenance cell to undertake the maintenance of infrastructure and other facilities	Implementation of SOP and review mechanism	Yes				
Improve medical facilities in the campus, including ambulance	Tie up with Nearby hospitals, well equipped ambulance on campus, Organizing health checkup camps, Regular inspection of first aid boxes in various dept.	Yes, Lata Mangeshkar MGI Hospital is in YCCE Ca Hospital				Campus
Improve drinking water facilities	Sufficient No. of water coolers with purifiers, Frequent inspection, Periodic water quality testing	Yes Yes Yes Yes				Yes



Vectorismo Chevan College of Engineering Wanadongri Hingas Road, NACPUR-441110 5 Year Plan for Yeshwantrao Chavan College of Engineering, Nagpur (As per NAAC/NBA/NIRF requirements)

			D	(113 pci	NAAC/NBA	MIKF requ	irements			
S		natara	Responsibili ty /Targets	Minimum achievement	Current Status		Year w	ise Targeted Ac	tivities	
N	Turun		assigned to	after 5 Yrs. at 2023-24	at 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Syllabus Revis Attainment wit incremental ind benchmarks & Measures in ca attainment	h yearly crease in Corrective se of less	Principal Dean (AM), Dean (P&D)	Syllabus Revision, PG & UG: once & CO-PO-PSO Attainment, Improved Benchmarks	V M Statements of Institute & Dept. are redefined. CO's are redefined, Quality policy & core values are defined.	CO-PO-PSO Attainment as per Redefined Course Outcomes with defined benchmarks	Revision of PG syllabus, Corrective Actions on Attainment as per benchmarks	Revision of UG Syllabus; CO-PO-PSO Attainment as per improved benchmarks	CO-PO-PSO Attainment with improved benchmarks & Relevant Corrective	CO-PO-PSO Attainment & Relevant Corrective Actions
	Offering New Elective Courses on	Industry aligned elective Courses	Dean (AM)	16	. 04	08	10	12	Actions 14	16
2	employability/ entrepreneurs hip/ skill	rses on loyability/ Pepreneurs Courses Director (R&D) n aligned	Director (R&D)	06	00 .	02	03	04	05	06
	development	MOOCS/ NPTEL Courses		15	02	07	09	11	13	15
3	Value-added co Hrs. duration)		Director (Training)	13	00	02	02	03	03	03
ļ	Student - Full time teacher ratio		Principal, Dean (AM)	1:15	1:16.5 to 1:22.8	1:19	1:18	1:17	1:16	1:15
	Teachers using (NPTEL/DTEL n Webinars, Podc	naterials,	Dean (AM), HOD's	100%	70%	80%	85%	90%	95%	100%

28	15	L Link on college formation.	70001		30	, m		. 0			17 3+8+10=21	18
26	15	Analysis, UR tkeholder's in	100%	27	18	3-3.5	20	1.75 Cr	20 T	759	3+6+8=17	16
24	15	nats, Graphical website for sto	100%	25	15	3-3.5	20	1.50 Cr	181		3+5+7=15	. 14
22	15	r standard Form n notice boards,	100%	22	12	2.5-3	18	1.25 Cr	791	45 L	2+4+6=12	12
20	15	Feedback Collection of Mid & End Semester as per standard Formats, Graphical Analysis, URL Link on college website, Timely Corrective Actions, ATR display on notice boards/website for stakeholder's information. 85-90% feedback suggestions should be implemented in time bound many or	100%	20	10	2.5-3	91	1 Cr	14 L	30 F	2+3+5=10	10
69	20-22	ection of Mid & E. !y Corrective Activates Suggestions is	90-95%	17	28*	2	63	1		15 L	1+1+3=5	, 90
120+69*	15	Feedback Coll website, Time 85-90% feedba	100%	125	75+28*	4	106+63*	7.5 Cr	7 E6	280 L	75	20
Dr. R. M. Moharil	CoE	Dean (AM)	Dr. D. M.	Moharil		Dr. R. M. Moharil		Dr. U. H.	Gawande	Dr. Sandip Khedkar	Dr. Sandip Khedkar	Director (Training), Dr. J. P.
Teachers with Ph.D. (New Additions)	No. of days for ESE results declaration	Online Student Feedback (analysis and corrective actions)	Students enrolled for Ph.D.	No. of students awarded Ph.D. (yearly)	PhD teachers recognition as research guides/ Supervisor	PhD Registrations per Supervisor	Faculty awarded PhD while working in the institute	Research Outside	from Schemes	Funding received from State & Central Govt. Agencies for incubation support	Workshops/ Seminars conducted on IPR and Industry-Academia Innovative practices & Entrepreneurship	No. of Industry based Training programs for students
9	7	∞	(6	5	2	11		12		13	

		ours for students	TPO & HOD's	1 Per Dept.	1 Per Dept.	1 Per Dept.	1 Pér Dept.	1 Per Dept.	1 Per Dept.	1 Per Dept.
14	No. of incuba incubated on	n campus	Dr. Sandip Khedkar	75	13 ideas identified	10	12	15	17	20
	Number of	Patents Submission Fast Track		105	06 Submitted	14	18	21	24	28
15	Submission	Patents with DMIMS (DU)	Dr. Sandip Khedkar	102	00	12	15	20	25	30
	Number of Co Submission	Copyrights		650	122	110	120	130	140	150
	well-known d (Journals: SC of Science, UC	CI, Scopus, Web IGC notified)		700	32*	130	135	140	145	. 150
16	No. of public Journals with above 2 ar conferences (i	lo. of publications in other fournals with Impact Factor bove 2 and in reputed onferences (IEEE, ACM etc.)		600	92	100	110	120	130	140
	No. of Books/Book		Dr. S. P. Gawande	82	07	10	12	15	20	25
				240		35	40	45	55	65
	Papers	Citation Count of		6,200	-	700	900	1200	1500	1900
17	faculty with s from other ins			350	35	50	60	. 70	80	90
18	New Experime establishment labs.	from other institutes New Experimental Set-ups establishment in department labs.		80	13	16	16	16	16	16

19	Annual consultancy amount	From Industry	Dr. J. P.	21-30 L per year	15 L	Ind.: 3-4 L per dept.	Ind.: 3-4 L per dept.	Ind.: 4-5 L per dept.	Ind.:4-5 L per dept.	Ind.:5-6 L per dept.
19	actually received	From others	Giri	30-35 L per Year	8.32 L	Other: 3-4 L per dept.	Other: 3-4 L per dept.	Other: 4-5 L per dept.	Others: 4-5 L per dept.	Others: 5-6 L per dept.
20	Collaborative e. outreach progra community and Government Or	ams with ! Non - ganisations	In-charge (S. Activity)	350	42	60	65	70	75	80
21	Development of models/charts Additions)	(New	Dean (AM) & HOD's	Models=:98 Charts=80, Manual:40	Models= 08 Charts=22 Manual:07	Models=10 Charts=16 Manual:08	Models =12 Charts=16 Manual:08	Models =14 Charts=16 Manual:08	Models = 16 Charts = 16	Models =18 Charts=16
22	Establishing Inc supported labor departments		Dr. J. P. Giri	14 1 per dept.	03	05	07	09	Manual:08	Manual:08
23	Adv. Lab Infras Incubation Faci campus	tructures, lities on	Principal, System Analyst	Super Computing Centre & Fab. Lab	CCC	Fabrication Lab.	Media & Graphic Lab.	Design/ Modelling/ Simulation centre	Super Computing Centre	Super Computing Centre
	No. of classroom halls with ICT – facilities (smart	enabled	Dean (AM) & Registrar	100%	60%	70%	75% .	80%	90%	100% .
24	IT facilities incl on campus Student - Comp	•	Principal,	Entire Campus	5 Bldgs. + Hostel	7 Bldgs. all floors+ Hostel	Entire Campus	Entire Campus	Entire Campus	Entire Campus
	the college	uter ratio in	System	2:1	2.29:1	2.25:1	2.20:1	2.15:1	2.10:1	2:1
	Bandwidth of ir (Leased line)	nternet	Analyst	1-1.5 GBPS	100 MBPS	160 MBPS	250 MBPS	350 MBPS	512 MBPS	1-1.5 GBPS
25	Students Camp + Joining Highe	us Placement r Studies	Director (Placement) & TPO	85% +10% (30% in core companies)	639 (82%) in 85 companies; 20 core companies -112	80%+10% (20% in core companies)	80%+10% (22% in core companies)	85%+10% (25% in core companies)	85%+10% (27% in core companies)	85%+10% (30% in core companies)
25	Students Camp + Joining Highe	us Placement r Studies	(Placement)	(30% in core	companies; 20 core	(20% in core	(22% in core	(25% in core	(27% in core	(30% in co

	Salary Package of placed students		4-18 L	1.80- 10 L	2.0-12 L	2.5-13 L	3-14 L	3.5-16 L	4-18 L			
	Collection of Offer orders of placed students by TPO		100%	60%	100%	100%	100%	100%	100%			
	Collection of evidences of students joined Higher Study	TPO & HoD's	100%	100%	100%	100%	100%	100%	100%			
26	No. of students Qualifying in exams. (NET/SLET/ GATE / GMAT/CAT/GRE/ TOEFL/ Civil Services/State govt.)	Director (Training)	1050	132*	170	190	210	230	250			
	Career guidance facilities on campus	Director (Placement) & TPO	Knowledge CI	Every Year 10-12 Carrier guidance programs, Mock Interviews, Campus Recruitment Training (CRT), Domain knowledge Classes by departments 15 days prior to company visit, Availability of Aptitude Test Practice Software in Computer Centres & its Usage Records.								
27	No. of awards/medals for outstanding performance in sports/cultural activities at national/internat. level by students	I/C Student Activities	. 215	24	30 .	35	40	50.	60			
	Alumni Association/ Chapters Activities	I/C Alumni	Every Passed Out Student		mni Association strations per ye	n ear						
28	Alumni Contribution (Amount	Association &	63 L		10 Lakh	11 L	12 L	15 L	20 L			
	in Rupees)	∞ Registrar	Every Year Alumni Meet	Alumni Meet at USA in June 19	Alumni Meet	Alumni Meet	Alumni Meet	Alumni Meet	Alumni Meet			
	No. of teachers attending STTP, FDP	Dean (P & D) & HoD's	95%	92%	95%	95%	95%	95%	95%			
29	No. of teachers receiving highly reputed national/ international awards/ recognitions from Govt. agencies	Principal	27		4	5	5	6	7			

	Female Faculty in administrative positions		20%	20%	20%	20%	20%	20%	20%
	Number of MoUs with National/ International Recognized Bodies		45	ı	rv	2	60	111	13
30		Principal, Dean (P&D) Registrar	NBA: UG=7 CE/ME 6 Yrs. NAAC: A+ NIRF: <100	PG=3 programs 1 Year extension of accreditation	NBA accreditation of UG=7 & PG=1-2	YCCE NIRF Rank: within	NIRF Rank: within 100	NAAC Accreditatio n with A+	NBA:UG=7 All programs; CE/ME:UG for
31	Differently abled friendliness Resources available in the institution	Registrar	Lift, Ramp/Rc	iils, Rest Rooms, S	Lift, Ramp/Rails, Rest Rooms, Special toilets etc. in all buildings	all buildings		Craae	o Yrs.
32	Green Measures in the institution	Principal & Registrar	Waste Manag LED Lamps. C	ement, Rain water	Waste Management, Rain water harvesting, Solar Panels for solar energy, Green Practices, Electronic Displays, LED Lamps, Optimum use of papers, tree plantation near all buildings of solars.	Panels for solar e	energy, Green Pr	actices, Electro	nic Displays,
33	Institutional & Departmental Best practices implementation	Principal, Dean (P&D) Dean (AM) Director (R&D)	2 Best Pract	ices strictly as po the existing best	2 Best Practices strictly as per NAAC Guidelines. Periodic review of the best practices implementation. Outcomes of the existing best practices. Impact Analysis.	es. Periodic rei ct Analysis.	iew of the best	uuci Green Aud ? practices imp	u Every Year olementation.
34	Students passing exams (Success Rate) in stipulated period of program	Principal & Dean (AM)	%26	*%62	%76	92%	93%	94%	%56
35	Innovative methods practicing by Faculty in T-L	Dean (AM), & HoD's	6-7 Methods	4-5 Methods	4-5 Methods	4-5 Methods	5-6 Methods	5-6 Methods	6-7 Methods
36	Impartus: faculty Lecture Video recording	Dean (AM) & HoD's	3 courses/ sem./dept.	2-3 courses/ dept. in Even sem.	2 courses/ dept./sem.	3 courses/ dept./sem.	3 courses/ dept./ sem.	3 courses/ sem. / dept.	3 courses/
37	'Innovative Students' Projects' recognized at State/ National/ Inter- national level by renowned Agencies	Dr. Sandip Khedkar	. 75	40	10	. 12	15	18	. 50

38	SWAYA	M/NPT	Faculty	Dean (AM)	80%	10%	20%	30%	45%	60%	80%
30	EL Cour Certifica	rses ation by	Students	& HoD's	590-655		50-60	75-85	110-120	155-170	200-220
39			ce through ssessment	Principal & Dean (P&D), Dean (AM)	& corrective r HoD's Yearly	neasures, Perspective Plans	(Departmental Quevel Assessment (in the contraction of Presentations & Prevision of Targets)	DLA), Annual Wo Implementations	rk Load (AWL) 1	oject Quality As Plan Periodic Au	surance adits & Reports
40		involvem onal Actii		Alumni I/C & HoD's	Resource persons: 175 Start-up: 100	As Resource persons=19 In Start-ups =03	As Resource persons=21 In Start-ups =10	As Resource persons =28 In Start-ups =15	As Resource persons =35 In Start-ups =20	As Resource persons= 42 In Start-ups =25	As Resource persons = 49 In Start-ups =30
41	No. of Joint Project	Research Organisation Other reputed		Dr. J. P. Giri,	55	00	.07	09	11	. 13	15
	s with	Other re Organiz	•	Dr. Khedkar	70		10	12	14	16	18
	Feedb ack on curricu lum	on Alumni		Dean (AM), TPO & HoD's	Employers= 175 Alumni= 1870		Employers=25 Alumni= 300	Employers=30 Alumni=320	Employers= 35 Alumni=350	Employers= 40 Alumni=400	Employers= 45 Alumni= 500
12	from stakeh olders	3 3		Dean (AM), TPO & HoD's	Exit feedback Course comple	etion reports for 1	ning Students, Feed 00% Courses from ommendation throi	faculty members	Gan Analysis &	ns, & Corrective Act	ions, and Ensure
3 Interna		National/ ational Conferences organized per year		Dr. U. H. Gawande	10+3	01 National	2 (National)+1 (International)	3+ -	2+1	3+ -	2+1

44	Centers of Excellence in the Institute	Principal, HoD's	10	02	4	5	7	8	10
45	Average drop-out percentage of students	Principal & Dean (AM)	<2%		<2%	<2%	<2%	<2%	<2%
46	Staff Representation (teaching/non-teaching) in decision making bodies	Principal	>30%	>20%	>20%	>22%	>25%	>27%	>30%
47	No. of interdisciplinary open elective courses to be offered to students	Dean (AM)	28	14	14	20	23	25	28
48	No. of Programs to be organized for professional development of staff (Teaching + Non-Teaching)	Director (Training), .HOD	56 (T) + 09 (NT)	07	9 (T) +1 (NT)	10+2	11+2	12+2	14+2
49	Industry Internship for the Students	Dean (AM) Director (Training), HOD	100%	IT Dept. Students-100% Other Dept 15-20% students	IT Dept. Students-100% Other Dept 20-30% students	IT Dept100% Other Dept 30-50%	100% for all final year students of all depts.	100% for all final year students of all depts.	100% for all final year students of all depts.

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