SELF STUDY REPORT (2018-2023)



National Agricultural Education Accreditation Board Indian Council of Agricultural Research, New Delhi



College of Agricultural Engineering and Technology, Parbhani Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani - 431402 (MS) INDIA

SELF STUDY REPORT FOR ACCREDITATION (2018-19 To 2022-23)

Submitted to Accreditation Board Indian Council of Agricultural Research New Delhi



College of Agricultural Engineering and Technology Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani – 431 402 (MS)



Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani – 431402 (Maharashtra State)





Forword

College of Agricultural Engineering and Technology, Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, cater the need of Agricultural Engineering education, agricultural crop production systems and agro based industries of Maharashtra, particularly of Marathwada region. It has well developed infrastructure, qualified academic staff and other related facilities required to implement educational programme at graduation, post-graduation and doctoral level.

The self-study report prepared by associate Dean and Principal, embodied all the related information requisite in the self study report for accreditation purpose of the college.

I appreciate the efforts of Associate Dean & Principal and faculty members of college in preparation of self study report for the accreditation.

Dr. U. M. Khodke Director of Instruction and Dean (F/A) VNMKV, Parbhani



Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani – 431402 (Maharashtra State)





Preface

College of Agricultural Engineering and Technology, a constituent College of Vasantrao naik Marathwada Krishi Vidyapeeth, Parbhani, is established on 23rd November, 1986, to fulfil and cater the need of farming community and agro-industry of Maharashtra and particularly Marathwada region through imparting the quality education and knowledge to the students at under graduate degree programme in Agricultural Engineering. College also offers PG and Ph.D. degree programme in four major disciplines of Agricultural Engineering. Training programs are also organized for youths by college for skilled professional manpower development in the field of Agricultural Engineering. The college has well infrastructural facilities, highly qualified academic staff, technical and supporting staff, administrative personnel, instructional farm for on farm experimentation and practical to train students in professional skills.

The institute provides opportunity to its graduating students to involve in the research projects so as to make their foundation strong when they enter the agricultural research system of the university and research institutes.

The college organizes a several programmes for a overall development of the students. Accreditation of the institution encourages its faculty and students for their future endeavours and to march ahead with full strength to fulfil the objectives and goals of agricultural education in the country.

Dr. U. M. Khodke Associate Dean and Principal College of Agricultural Engineering and Technology, VNMKV, Parbhani





Acknowledgement

I place on record the timely submission of information, by all the academic and administrative staff members, required for the inclusion and in preparation of self study report of this college for accreditation purpose. All the heads and in-charges of education branch, scholarship, hostel, accounts, gymkhana, training and placement, NSS, library, establishment, etc. Contributed the appropriate information of their branch for the report.

I also put on record the help rendered by Dr. Rahul Ramteke, Nodel Officer for accreditation report preparation and the members of committee for preparation of the report in stipulated period in a such fine form.

Our thanks are due to Prof. (Dr.) Indra Mani, Hon. Vice Chancellor of the university and Director of Instructions and Dean (F/A) of the university for their kindly guidance and help during the preparation of the report.

Dr. U. M. Khodke Associate Dean and Principal College of Agricultural Engineering and Technology, VNMKV, Parbhani

Contents

S. No.	Particulars	Page No.
1	Foreword	i
2	Preface	ii
3	Acknowledgement	iii
	Part A	
4	Self-Study Report for the Undergraduate Degree Programme	1 -41
	Part B	
5	Self-Study Report for the M.Tech. Degree Programme	42-102
6	Self-Study Report for the Ph.D. Degree Programme	103-151
	Part C	
6	Self-Study Report for the College	152-236

S. No.	Particulars	Page No.
6.4	Self-Study Report of the Under-Graduate Degree Programme	2
6.4.1	Brief History of the Undergraduate Degree Programme	2
6.4.2	Faculty Strength	6
6.4.3	Technical and Supporting staff	10
6.4.4	Classrooms and Laboratories	12
6.4.5	Conduct of Practical and Hands on Training	22
6.4.6	Supervision of Students in Undergraduate Programme	23
6.4.7	Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)	23
6.4.8	Student intake and attrition in the programme for last five years	39
6.4.9	ICT Application in Curricula Delivery	39
	Certificate	41

Index - I (6.4 UG)

List of Tables

-

_

Table	Title	Page No.
No.		
1	Programmes offered with duration	6
2	Faculty strength of the College of Agricultural Engineering and	6
	Technology	
3	Department wise faculty position	7
3-A	Research Staff Involved in UG Teaching	8
4	Outsourcing from Other Constituent Colleges of VNMKV(2018-19	8
5	Details of Contractual Teachers employed for completing curriculum	8
	of UG degree programme (2018-19 to 2022-23)	
6	Technical and supporting staff of college	10
7	Interdisciplinary credits requirement as per V th Deans Committee	13
8	Details of Classrooms	13
9	Details of Laboratory	13
10	Department-wise list of equipments/instruments/implements	15
	available	
11	Feedback of Students	35
12	Feedback of Parents	36
13	Feedback of Faculty	36
14	Feedback of Farmers	36-37
15	Feedback of Entrepreneurs	38-39
16	Student intake and attrition of UG programme	39

S. No.	Particulars	Page No.
6.4	Self-Study report of M.Tech. (Agril. Engg.) programmes (IDE)	42
6.4.1	Brief History of the Postgraduate Degree Programme	42
6.4.2	Faculty Strength	45
6.4.3	Technical and Supporting staff	46
6.4.4	Classrooms and Laboratories	46
6.4.5	Conduct of Practical and Hands on Training	50
6.4.6	Supervision of students in M.Tech. (Agril. Engg.) programmes	50
617	Feedback of stakeholders (Students, parents, industries, employers,	51
0.4.7	farmers etc.)	
6.4.8	Student intake and attrition in the programme for last five years	58
6.4.9	ICT Application in Curricula Delivery	58
	Certificate	59
S. No.	Particulars	Page No.
6.4	Self-Study report of M.Tech. (Agril. Engg.) programmes (SWCE)	60
6.4.1	Brief History of the Postgraduate Degree Programme	60
6.4.2	Faculty Strength	61
6.4.3	Technical and Supporting staff	61
6.4.4	Classrooms and Laboratories	62
6.4.5	Conduct of Practical and Hands on Training	63
6.4.6	Supervision of students in M.Tech. (Agril. Engg.) programmes	64
6.4.7	Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)	65
6.4.8	Student intake and attrition in the programme for last five years	68
6.4.9	ICT Application in Curricula Delivery	69
	Certificate	70
S. No.	Particulars	Page No.
6.4	Self-Study report of M.Tech. (Agril. Engg.) programmes (PFE)	71
6.4.1	Brief History of the Postgraduate Degree Programme	71
6.4.2	Faculty Strength	72
6.4.3	Technical and Supporting staff	72
6.4.4	Classrooms and Laboratories	73
6.4.5	Conduct of Practical and Hands on Training	74
6.4.6	Supervision of students in M.Tech. (Agril. Engg.) programmes	75
6.4.7	Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)	77
6.4.8	Student intake and attrition in the programme for last five years	86
6.4.9	ICT Application in Curricula Delivery	87
	Certificate	88

Index - II (6.4 PG)

S. No.	Particulars	Page No.
6.4	Self-Study report of M.Tech. (Agril. Engg.) programmes	89
	(FMPE)	
6.4.1	Brief History of the Postgraduate Degree Programme	89
6.4.2	Faculty Strength	90
6.4.3	Technical and Supporting staff	91
6.4.4	Classrooms and Laboratories	91
6.4.5	Conduct of Practical and Hands on Training	93
6.4.6	Supervision of students in M.Tech. (Agril. Engg.) programmes	93
617	Feedback of stakeholders (Students, parents, industries, employers,	94
0.4.7	farmers etc.)	
6.4.8	Student intake and attrition in the programme for last five years	101
6.4.9	ICT Application in Curricula Delivery	101
	Certificate	102

Table No.	Title	Page No.
1100	Irrigation and Drainage Engineering	
1	M.Tech. (Agril. Engg.) degree programmes offered with duration	43
2	Minimum course and research credits requirement for the award of M. Tech. (Agril. Engg.) degree (till 2021-22)	44
3	Faculty position of Department of Irrigation and Drainage Engineering	45
4	Technical and supporting staff of Department of Irrigation and Drainage Engineering	46
5	Details of Laboratory Department of Irrigation and Drainage Engineering	49
6	Details of list of equipments/instruments/implements	49-50
7	Details of students allotted for supervision of research work in the M.Tech. degree programme	51
8	Details of students allotted for supervision of research work in the M.Tech. degree programme (Department of IDE)	51
9	Student intake and attrition in the M.Tech. programme in last five years	58
10	Students intake and attrition M. Tech degree programme	58
11	Students Pass out (M. Tech. degree programme)	58
Table	Title	Page No.
No.		
	Soil and Water Conservation Engineering	(0)
l	M. Tech. (Agril. Engg.) degree programmes offered with duration	60
2	Department wise faculty position of Department of Water	61
2	Technical and supporting staff of Department of Soil and Water	62
5	Conservation Engineering	02
4	Details of Laboratory Department of Soil and Water Conservation Engineering	63
5	Details of department wise list of equipments/instruments / implements	63
6	Details of students allotted for supervision of research work in the M.Tech. degree programme	64
7	Details of students allotted for supervision of research work in the M.Tech. degree programme (Department of SWCE)	64
8	Student intake and attrition in the M.Tech. programme in last five vears	68
9	Students intake and attrition M. Tech degree programme	68
10	Students Pass out (M. Tech. degree programme)	69
Table No.	Title	Page No.
	Processing and Food Engineering	
1	M.Tech. (Agril. Engg.) degree programmes offered with duration	71
2	Faculty position of Department of Processing and Food Engineering	72

List of Tables (6.4 PG)

-		
3	Technical and supporting staff of Department of Processing and	73
4		74
4	Details of Laboratory Department of Processing and Food	/4
	Engineering	74
5	Details of department wise list of equipments/instruments/	/4
6	implements	
6	Details of students allotted for supervision of research work in the	
	M. Tech. degree programme	
1	Details of students allotted for supervision of research work in the	
0	M.Tech. degree programme (Department of PFE)	07.06
8	Feedback of Enterprenuer	85-86
9	Student intake and attrition in the M.Tech. programme in last five	86
	years	
10	Students intake and attrition M. Tech degree programme	86
11	Students Pass out (M. Tech. degree programme)	86
Table	Title	Page No.
No.		_
	Form Machinery and Dowar Engineering	
	Farm Machinery and Fower Engineering	
1	M.Tech. (Agril. Engg.) degree programmes offered with duration	89
1 2	M.Tech. (Agril. Engg.) degree programmes offered with duration Faculty position of Department of Farm Machinery and Power	89 90
1 2	M.Tech. (Agril. Engg.) degree programmes offered with duration Faculty position of Department of Farm Machinery and Power Engineering	89 90
1 2 3	M.Tech. (Agril. Engg.) degree programmes offered with duration Faculty position of Department of Farm Machinery and Power Engineering Technical and supporting staff of Department of Farm Machinery	89 90 91
1 2 3	M.Tech. (Agril. Engg.) degree programmes offered with duration Faculty position of Department of Farm Machinery and Power Engineering Technical and supporting staff of Department of Farm Machinery and Power Engineering	89 90 91
1 2 3 4	M.Tech. (Agril. Engg.) degree programmes offered with duration Faculty position of Department of Farm Machinery and Power Engineering Technical and supporting staff of Department of Farm Machinery and Power Engineering Details of Laboratory Department of Farm Machinery and Power	89 90 91 92
1 2 3 4	M.Tech. (Agril. Engg.) degree programmes offered with duration Faculty position of Department of Farm Machinery and Power Engineering Technical and supporting staff of Department of Farm Machinery and Power Engineering Details of Laboratory Department of Farm Machinery and Power Engineering	89 90 91 92
1 2 3 4 5	M.Tech. (Agril. Engg.) degree programmes offered with duration Faculty position of Department of Farm Machinery and Power Engineering Technical and supporting staff of Department of Farm Machinery and Power Engineering Details of Laboratory Department of Farm Machinery and Power Engineering Details of department wise list of equipments/instruments /	89 90 91 92 92
1 2 3 4 5	M.Tech. (Agril. Engg.) degree programmes offered with duration Faculty position of Department of Farm Machinery and Power Engineering Technical and supporting staff of Department of Farm Machinery and Power Engineering Details of Laboratory Department of Farm Machinery and Power Engineering Details of department wise list of equipments/instruments / implements	89 90 91 92 92
1 2 3 4 5 6	M.Tech. (Agril. Engg.) degree programmes offered with durationFaculty position of Department of Farm Machinery and PowerEngineeringTechnical and supporting staff of Department of Farm Machineryand Power EngineeringDetails of Laboratory Department of Farm Machinery and PowerEngineeringDetails of department wise list of equipments/instruments /implementsDetails of students allotted for supervision of research work in the	89 90 91 92 92 92 93 93
1 2 3 4 5 6	M.Tech. (Agril. Engg.) degree programmes offered with durationFaculty position of Department of Farm Machinery and PowerEngineeringTechnical and supporting staff of Department of Farm Machinery and Power EngineeringDetails of Laboratory Department of Farm Machinery and Power EngineeringEngineeringDetails of department wise list of equipments/instruments / implementsDetails of students allotted for supervision of research work in the M.Tech. degree programme	89 90 91 92 93
1 2 3 4 5 6 7	M.Tech. (Agril. Engg.) degree programmes offered with duration Faculty position of Department of Farm Machinery and Power Engineering Technical and supporting staff of Department of Farm Machinery and Power Engineering Details of Laboratory Department of Farm Machinery and Power Engineering Details of Laboratory Department of Farm Machinery and Power Engineering Details of department wise list of equipments/instruments / implements Details of students allotted for supervision of research work in the M.Tech. degree programme Details of students allotted for supervision of research work in the	89 90 91 92 93 94
1 2 3 4 5 6 7	M.Tech. (Agril. Engg.) degree programmes offered with durationFaculty position of Department of Farm Machinery and PowerEngineeringTechnical and supporting staff of Department of Farm Machineryand Power EngineeringDetails of Laboratory Department of Farm Machinery and PowerEngineeringDetails of department wise list of equipments/instruments /implementsDetails of students allotted for supervision of research work in theM.Tech. degree programmeDetails of students allotted for supervision of research work in theM.Tech. degree programme (Department of FMPE)	89 90 91 92 92 93 94
1 2 3 4 5 6 7 8	Farm Machinery and Fower EngineeringM.Tech. (Agril. Engg.) degree programmes offered with durationFaculty position of Department of Farm Machinery and PowerEngineeringTechnical and supporting staff of Department of Farm Machinery and Power EngineeringDetails of Laboratory Department of Farm Machinery and Power EngineeringEngineeringDetails of department wise list of equipments/instruments / implementsDetails of students allotted for supervision of research work in the M.Tech. degree programmeDetails of students allotted for supervision of research work in the M.Tech. degree programme (Department of FMPE)Student intake and attrition in the M.Tech. programme in last five	89 90 91 92 93 94 101
1 2 3 4 5 6 7 8	M.Tech. (Agril. Engg.) degree programmes offered with durationFaculty position of Department of Farm Machinery and PowerEngineeringTechnical and supporting staff of Department of Farm Machinery and Power EngineeringDetails of Laboratory Department of Farm Machinery and Power EngineeringDetails of department wise list of equipments/instruments / implementsDetails of students allotted for supervision of research work in the M.Tech. degree programmeDetails of students allotted for supervision of research work in the M.Tech. degree programme (Department of FMPE)Student intake and attrition in the M.Tech. programme in last five years	89 90 91 92 93 94
1 2 3 4 5 6 7 8 9	M.Tech. (Agril. Engg.) degree programmes offered with duration Faculty position of Department of Farm Machinery and Power Engineering Technical and supporting staff of Department of Farm Machinery and Power Engineering Details of Laboratory Department of Farm Machinery and Power Engineering Details of department wise list of equipments/instruments / implements Details of students allotted for supervision of research work in the M.Tech. degree programme Details of students allotted for supervision of research work in the M.Tech. degree programme (Department of FMPE) Student intake and attrition in the M.Tech. programme in last five years Students intake and attrition M. Tech degree programme	89 90 91 92 93 94 101

S. No.	Particulars	Page No.
6.4	Self-Study report of Ph.D. (Agril. Engg.) programmes (IDE)	103
6.4.1	Brief history of Ph.D. programmes	103
6.4.2	Faculty Strength	106
6.4.3	Technical and Supporting staff	106
6.4.4	Classrooms and Laboratories	107
6.4.5	Conduct of Practical and Hands on Training	108
6.4.6	Supervision of students in Ph. D. programme	109
647	Feedback of stakeholders (Students, parents, industries, employers,	109
0.4.7	farmers etc.)	
6.4.8	Student intake and attrition in the programme for last five years	112
6.4.9	ICT Application in Curricula Delivery	112
	Certificate	113
S. No.	Particulars	Page No.
6.4	Self-Study report of Ph.D. (Agril. Engg.) programmes (SWCE)	114
6.4.1	Brief history of Ph.D. programmes	114
6.4.2	Faculty Strength	114
6.4.3	Technical and Supporting staff	115
6.4.4	Classrooms and Laboratories	116
6.4.5	Conduct of Practical and Hands on Training	117
6.4.6	Supervision of students in Ph. D. programme	117
647	Feedback of stakeholders (Students, parents, industries, employers,	118
0.1.7	farmers etc.)	
6.4.8	Student intake and attrition in the programme for last five years	121
6.4.9	ICT Application in Curricula Delivery	122
	Certificate	123
S. No.	Particulars	Page No.
6.4	Self-Study report of Ph.D. (Agril. Engg.) programmes (PFE)	124
6.4.1	Brief history of Ph.D. programmes	124
6.4.2	Faculty Strength	124
6.4.3	Technical and Supporting staff	125
6.4.4	Classrooms and Laboratories	126
6.4.5	Conduct of Practical and Hands on Training	127
6.4.6	Supervision of students in Ph. D. programme	128
6.4.7	Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)	129
6.4.8	Student intake and attrition in the programme for last five years	136
6.4.9	ICT Application in Curricula Delivery	137
	Certificate	138
S. No.	Particulars	Page No.
6.4	Self-Study report of Ph.D. (Agril. Engg.) programmes (FMPE)	139

Index - II (6.4 Ph.D.)

S. No.	Particulars	Page No.
6.4.1	Brief history of Ph.D. programmes	139
6.4.2	Faculty Strength	139
6.4.3	Technical and Supporting staff	140
6.4.4	Classrooms and Laboratories	141
6.4.5	Conduct of Practical	142
6.4.6	Supervision of students in Ph. D. programme	142
647	Feedback of stakeholders (Students, parents, industries, employers,	143
0.4.7	farmers etc.)	
6.4.8	Student intake and attrition in the programme for last five years	149
6.4.9	ICT Application in Curricula Delivery	150
	Certificate	151

Table	Title	Page No.
No.		
	Irrigation and Drainage Engineering	
1	Ph.D. (Agril. Engg.) degree programmes offered with duration	104
2	Minimum course and research credits requirement for the award of	105
	Ph.D. (Agril.Engg.) degree (till 2021-22)	10.0
3	Faculty position: Department of Irrigation and Drainage	106
1	Technical and supporting staff of Department of Irrigation and	107
	Drainage Engineering	107
5	Details of Laboratory Department of Irrigation and Drainage	107-108
	Engineering	
6	Details of department wise list of equipments/instruments/	108
	implements	
7	Details of students allotted for supervision of research work in the	109
	Ph.D. degree programme (Department of IDE)	
8	Student admitted and attrition in Ph.D. programme in last five	112
0	years	112
9	Students intake and attrition Ph. D. degree programme	112
	Students Pass out (Pn.D. degree programme)	112 D N
I able No	I itie	Page No.
110.	Soil and Water Conservation Engineering	
1	Ph D (Agril, Engg) degree programmes offered with duration	114
2	Faculty position of Department of Soil & Water Conservation	115
_	Engineering	110
3	Technical and supporting staff of Department of Soil and Water	116
	Conservation Engineering	
4	Details of Laboratory Department of Soil and Water Conservation	117
	Engineering	
5	Details of department wise list of equipments/instruments/	117
6	Implements	110
0	Ph D degree programme (Department of SWCE)	110
7	Student admitted and attrition in Ph D programme in last five	121
/	vears	121
8	Students intake and attrition Ph. D. degree programme	121
9	Students Pass out (Ph.D. degree programme)	122
Table	Title	Page No.
No.		8
	Processing and Food Engineering	
1	Ph.D. (Agril. Engg.) degree programmes offered with duration	124
2	Faculty position : Department of Processing and Food	125
	Engineering	
3	Technical and supporting staff of Department of PFE	125-126
4	Details of Laboratory Department of Processing and Food	126
	Engineering	

List of Tables (6.4 Ph.D.)

5	Details of department wise list of equipments/instruments/	127
	implements	
6	Details of students allotted for supervision of research work in the	129
	Ph.D. degree programme	
7	Details of students allotted for supervision of research work in the	129
	Ph.D. degree programme (Department of PFE)	
8	Feedback of Enterprenuer	135-136
9	Student admitted and attrition in Ph.D. programme in last five	136
	years	
10	Students intake and attrition Ph. D. degree programme	136
11	Students Pass out (Ph.D. degree programme)	136
Table	Title	Page No.
No.		
	Farm Machinery and Power Engineering	
1	Ph.D. (Agril. Engg.) degree programmes offered with duration	139
2	Faculty position : Department of Farm Machinery and Power	140
	Engineering	
3	Technical and supporting staff of Department of Farm Machinery	140
	and Power Engineering	
4	Details of Laboratory Department of Farm Machinery and Power	140-141
	Engineering	
5	Details of department wise list of equipments/instruments/	141
	implements	
6	Details of students allotted for supervision of research work in the	142
	Ph.D. degree programme	
7	Details of students allotted for supervision of research work in the	143
	Ph.D. degree programme (Department of FMPE)	
8	Student admitted and attrition in Ph.D. programme in last five	143
	years	
9	Students intake and attrition Ph. D. degree programme	149
10	Students Pass out (Ph.D. degree programme)	150

S. No	Particulars	Page No.
6.5	Self-Study Report of the College	152
6.5.1	College Administration	153
6.5.1.1	College Dean's Office Establishment	153
6.5.1.2	Monitoring Mechanism for Quality Education (On-Line)	154
6.5.1.3	CC/Board of Studies	156
6.5.1.4	Anti Ragging Cell	160
6.5.1.5	Biological Waste Disposal Facility	163
6.5.1.6	Institutional Ethics Committee for Experiment on Animals	163
6.5.1.7	Committee for Prevention of Sexual Harassment of Women at Work Places	164
6.5.2	Faculty	164
6.5.2.1	Faculty Strength	164
6.5.2.2	Faculty Profile (Department wise)	165
6.5.2.3	Credentials of the Faculty	170
6.5.2.4	Technical and Supporting Staff	178
6.5.3	Learning Resources	180
6.5.3.1	College Library (Digital)	181
6.5.3.2	Laboratories, Instructional Farm, Workshop, Dairy Plant Veterinary Clinic, Hatchery, Ponds etc.	182
6.5.3.3	Student READY/ In Plant Training/ Internship/ Experiential LearningProgrammes	189
6.5.3.4	Curricula Delivery Through IT (Smart class rooms/interactive board etc.)	194
6.5.4	Student Development	194
6.5.4.1	Student intake and attrition in the UG, PG, Ph.D. Programme for last five years	199
6.5.4.2	Average Number of Students in Theory and Practical Classes	200
6.5.4.3	Admission Process	200
6.5.4.4	Conduct of practical and Hands on Training	203
6.5.4.5	Examination and Evaluation Process	204
6.5.4.6	NCC/NSS/RVC Units	206
6.5.4.7	Language Laboratory	210
6.5.4.8	Cultural Centre	210
6.5.4.9	Personality Development	211
6.5.5	Physical Facilities	215
6.5.5.1	Hostel	215
6.5.5.2	Examination Hall	219
6.5.5.3	Sports and Recreation Facilities	219
6554	Auditorium	221
6555	Exhibition Hall/Museum	221
656	Desceral Facilities	222
0.3.0	Research Facilities	222
0.3.0.1	Posigraduate Laboratories and Equipment	223
6.5.6.2	Research Contingency	226

Index III (6.5 College)

6.5.7	Outcome/Output	227	
6.5.7.1	Student Performance in National Examinations		
6.5.7.2	Student Placement Profile	228	
6.5.7.3	Award/recognition/certificates		
6.5.7.4	Employability	233	
	Certificate	236	

List of Tables

Table	Title	Page No	
No.			
1	Details of Associate Dean's office establishment	153	
2	Details of communication facilities at Associate Dean's office	153	
3	Details of infrastructure at Associate Dean's office	154	
4	Details of constitution of Board of Studies	156	
5	Departmentwise dates of conduct of BOS meetings during last five	157-159	
	years		
6	Structure of College/ Faculty Council Committee	159	
7	Anti-Ragging Committee	160	
8	Anti-Ragging Squad	161	
9	Disciplinary Committee of the college	162	
10	Vigilance committee	162	
11	Hostel Management Committee	162-163	
12	Institutional ethics committee for experiment on animals	163	
13	Committee for prevention of sexual harassment of women at workplace	164	
14	Details of sanctioned and in-place position of faculty of college		
15	Details of department wise sanctioned and in-place position of faculty	165-166	
	of college		
16	Outsourcing from other constituent colleges of VNMKV (from 2018-	166	
	2019 to 2022-2023)		
17	Details of contractual teachers engaged for completing curriculum of	166-167	
	UG degree programme (from 2018-2019 to 2022-2023)		
18	Department wise profile of academic staff members	169	
19	Credentials of the faculty of College	171-177	
20	Technical and supporting staff of college	179-180	
21	Subject wise books available in college library	181	
22	Department wise details of laboratories of the college	182-183	
23	Details of VII semester students of UG programme deputed for in-plant	189-192	
	training during 2018-2019 to 2022-2023		
24	Details of PG programme students deputed for in-plant training	192	
	during2018-2019 to 2022-2023		
25	Students intake and attrition of B.Tech programme	200	
26	Average number of students of UG, PG and Ph. D. programme	200	

	allocated per batch for theory and practical classes	
27	Examinations and evaluation of students	206
28	Performance of UG students during 2018-19 to 2022-23	206
29	Details of NSS special camps organized during 2013-14 to 2017-18	207
30	Physical facilities at college and campus	215
31	Details of facilities available in the hostel	216-218
32	Details of in charge for sport and cultural activities for the year 2022-	220
	23	
33	Sport facilities of the college	221
34	Department wise details of laboratories	223
35	Details of departmentwise list of equipments/ instruments/ implements	224-226
	of PG & Ph D programme	
36	Year wise details of ICAR research funds received and expenditure	227
	incurred during 2018-19 to 2022-23	
37	Student performance in national examination for the period of 2018-	227
	2019 to 2022-23	
38	Sectorwise placement record of CAET students for the period of 2018-	229
	2019 to 2022-23	
39	Student awards/recognition/certificates during 2018-2019 to 2022-23	230
40	Award/recognition/certificates of college students in intercollegiate	230
	sports and co-curricular activities (Youth Festival) at University level	
	during 2018-19 to 2022-23	
41	College students selected in University team to participate in inter	230-231
	University competitions (state and national level) 2018-19 to 2022-23	
42	Award/recognition/certificates of faculty members during 2018- 19 to 2022-23	231-233
43	Details of the college students initiating self-entrepreneurship and leading the companies	234

List of Figures

Figure	Title	Page No
No.		
1	Performances of UG students in National and State level PG entrance	228
	examinations	
2	Placement of UG students during 2018-19 to 2022-23	229

B.Tech. (Agricultural Engineering)

6.4 Self-Study Report of the Under-Graduate Degree Programme

6.4 Self-Study Report of the Under-Graduate Degree Programme

6.4.1 Brief History of the Undergraduate Degree Programme

Agricultural Engineering is a branch which incorporates principles of various basic engineering disciplines such as mechanical, civil, electrical, electronics, chemical, material science, computer and information technology with the knowledge of agriculture and basic sciences. Agricultural Engineering deals with tractors and farm machinery, farm structures, farm drainage management and erosion control, water supply and irrigation, renewable energy applications and processing and value addition of farm produce.

The Government of Maharashtra established Marathwada Krishi Vidyapeeth on 18th May 1972 at Parbhani a centrally located place of Marathwada for the development of agriculture in the region. Presently the nomenclature of university is expanded as Vasantrao Naik Marathwada Krishi Vidyapeeth (VNMKV) since 2013. Since 1986, VNMKV is privileged to have the College of Agricultural Engineering and Technology as one of its constituent colleges working for the empowerment of farmers and human resource development. Since then, Agricultural Engineering faculty is playing the pivotal role in the development of agriculture by proving the skilled human resource and increasing agriculture production and productivity in the state of Maharashtra and Marathwada in particular.

Growth of Institution

The College of Agricultural Engineering and Technology, Parbhani was established on 23rd November 1986 with the intake capacity of 32 students per year (MKV-1286/CR-101/20-A Dt. 23rdOctober 1986). The college offers four-year undergraduate degree programme in B. Tech. (Agricultural Engineering) spread over eight semesters. B. Tech. (Agricultural Engineering) degree programme is unique of its kind which envisages planning, development, implementation, and evaluation of modern agricultural technologies for the upgradation of traditional practices to have entrepreneurship and revolution in the field of agriculture and agro-based industries.

During the academic year 2005-2006, intake capacity for B. Tech. (Agril. Eng.) was increased from 32 to 64 in the. Recently the intake capacity of this programme is increased from 64 to 80 in the academic year 2022-2023 to meet the requirement of the gross enrolment ratio as per NEP. This degree programme is structured to acquire need based and refined knowledge and skills in the field of Agricultural Engineering. Since its establishment total 815 students are graduated from this college, who are serving the society successfully in different sectors.

This college has implemented numerous innovative research and extension projects independently with tangible outcomes. These includes State and Central Government sponsored ad-hoc projects, All India Coordinated Research Project (AICRP) and RKVY through DST, ICAR, MoFPI and Ministry of Water Resources. The college also has established Renewable Energy Park for demonstrating solar energy utilization and Model Experiential Learning Unit for processing of oilseeds and pulses. College also was involved in establishment of Centre of excellence in drones, robots and AGVs for digital agriculture under World Bank funded National Agricultural Higher Education Project.

College is establishing Maharashtra Mechanization Center through CSR fund from TAFE for imparting advanced skill training to UG students during industrial attachment. College is also operating another industry sponsored project with the help of CNH (New holland), Industrial for undertaking skill development trainings on mechanization for stundets and rural youths.

Present Status of Under Graduate Degree Programme

At present, the College of Agricultural Engineering and Technology is running undergraduate B. Tech. (Agril. Engg.) degree programme. The course curricula and syllabus of UG programme is restructured as per the recommendations of Vth Deans' Committee of ICAR, New Delhi and is being implemented from the academic year 2017-18. The college has seven departments with well-equipped laboratories:

- 1. Department of Irrigation and Drainage Engineering (IDE)
- 2. Department of Soil and Water Conservation Engineering (SWCE)
- 3. Department of Agricultural Process Engineering (APE) / Processing and Food Engineering (PFE)
- 4. Department of Farm Machinery and Power Engineering (FMPE)
- 5. Department of Renewable Energy Engineering (REE)
- 6. Department of Farm Structures (FS)
- 7. Department of Basic Sciences and Engineering

Following Facilities are available at college.

- 1. Model Class rooms, Exam hall, Seminar hall & Auditorium.
- 2. Laboratories with advanced equipment and software.
- 3. Gymkhana unit, NSS Unit, Training & Placement Cell, College Library and Cultural Centre.
- 4. Boys & Girls Hostels with all required facilities.

College has separate buildings for girls' and boys' hostel with the accommodation capacity of 40 and 140 students, respectively having the facilities like Wi-Fi, drinking water purifier and solar water heater. If require additional hostel accommodation is provided in oter hostels in the campus. Sports facilities for indoor games (carrom, chess), outdoor games (kabaddi, kho-kho, volleyball) and recreation facilities are available in the College. In addition, University level sports complex facilities are used by the students. Admission process for the UG programme is being implemented by State Nodal Agency and MCAER, Pune through online mode for all SAUs of Maharashtra. The academic programme for UG degree is run as per the prevailing academic rules and regulations of the University.

Mission and Goals

• Mandate of the College

The college is working on three mandates viz. education, research and extension. The mandate of college is to impart quality education, to conduct applied research and to transfer developed and proven technologies of Agricultural Engineering among farmers and students.

Mission Statement

- To impart quality higher education, professional knowledge, and skills to the students to empower them for self-employment and making career in industries, academic institutions, and government and private industries.
- To provide basic and applied research in agricultural engineering for the benefit of farmers and industry.

Goals

- To meet the need of farmers, industries, R and D organizations and educational institutions.
- To develop capabilities in the students to face the challenges for their overall professional development.

Current Mission

- To educate graduates in the field of Agricultural Engineering to prepare them as leaders in industry and profession.
- To upgrade the laboratories and infrastructure facilities as per the requirement of syllabus recommended by Deans committee of ICAR and to meet the future challenges of quality education.

• To conduct need-based quality research by applying engineering principles to solve problems of agricultural systems and to make sincere efforts for transfer of Agricultural Engineering technologies for empowerment of students and farmers.

Current Goals and Objectives

- To upgrade the laboratories to meet the requirements of advanced learning.
- To reorient syllabus in line with NEP 2020 recommendations
- To update the faculty by giving exposure to them at National / International institutes for advance training and capacity building programmes.
- To establish Industry-Academia linkages for joint research funding and commercialization of technology.
- To establish collaborations with various national and international institutes to conduct innovative and need based research, to create global competitiveness and internationalization.

Accomplishments

- The students graduated from this college are serving in different sectors including self-employment and entrepreneurs.
- A few graduates have served and are working in reputed international and national institutes like NASA (Ms. Aparna Phalke), Purdue University (Mr. Kishor Gavhane), JSPS Kyoto University (Mr. Parmeshwar Udmale).
- Received several awards at state and national level for paper presentations, best thesis award and innovative ideas in various technical festivals and in NSS activities.
- College has developed several production / processing technologies and farm implements.
- College has established collaborations with ICAR-CIAE, Bhopal, ICAR-CIRCOT, Mumbai, ICAR-CRIDA Hyderabad, ICAR-IISR Lucknow, IIT Kharagpur and Mumbai, CFRRI Mysore and ICAR-CIPHET Ludhiana for students/ faculty exchange, trainings and collaborative research.
- Developed Linkage with international institutes like Washington State University, Pullman, USA; Kansas State University, Kansa; University of Florida USA and Asian Institute of Technology Bankok for students exchange and research.
- One patent by the faculty on Instant potato and process for manufacturing the same, (2008) Patent No. 192928 has been approved.

• College has also made MoU with various industries for commercialization of developed machines/ technologies (M/s Sushil Model & Scientific Works, Ambala Cantt. for electrically operated roaster, Rohit Agro, Pune for BBF planter, Inventive Solutions Nashik for solar operated gadgets, etc).

Table 1: Programmes offered with duration.

Programme	Name of the Degree/ Department	Year of Establishment	Duration
UG	B. Tech. (Agricultural Engineering)	1986-87	4 Years (8 Semesters)

Restructuring of UG programme from academic year 2017-18

The curricula and syllabus recommended by the Vth Deans' committee is being implemented from the academic year 2017-18 in which, practical contents were increased to the tune of 60 percent. The maximum course credits of 21-22 per semester are included to provide time to the students for library consultation and other activities like assignments, tutorials, self-work, seminars, and project preparation. The total number of credits in 8 semesters of UG programme including student READY is 183 credits.

6.4.2 Faculty Strength

The post of Associate Dean and Principal of College of Agricultural Engineering has been sanctioned by state government regulation for the establishment of college. Dr U.M. Khodke is working as Dean/Associate Dean and Principal since November 2018.

S. No.	Sanctioned Faculty	Faculty in Place	Vacant Position	Sanctioned position	Faculty recommended by the ICAR regulatory body	Deviation (%)
	Associate					
1	Dean and	-	1	1	1	00
	Principal					
2	Professor			00	07	100
2	Associate	04	01	05	1.4	26
3	Professor	04	01	03	14	50
1	Assistant	12	0	12	21	28
4	Professor	15	0	15	<u>∠1</u>	30
	Total	17	02	19	43	56

 Table 2 : Faculty strength of College of Agricultural Engineering and Technology

S.No.	Post	Sanctioned post	Filled Post	Vacant	Faculty recommended by the ICAR	Remark
1	Department	of Irrigation a	nd Drain	ago Engin	regulatory body	
	Professor				1	Services of
	Associate Professor	1	1	0	2	Professors and Associate
	Assistant Professor	2	2	0	3	Professors from faculty of
2	Soil a	nd Water Con	servatior	n Engineer	ing	Agriculture and
	Professor	0	0	0	1	research projects such as AICRP
	Associate Professor	1	1	0	2	on Irrigation Water
	Assistant Professor	2	2	0	3	Management, Dry land
3	А	gricultural Pr	ocess En	gineering	,	Agriculture and
	Professor	0	0	0	1	Animal Energy utilization are
	Associate Professor	1	1	0	2	deputed to support the
	Assistant Professor	2	2	0	3	teaching and research activities
4		Farm Power	and Mac	hinery		of College of
	Professor	0	0	0	1	Engineering &
	Associate Professor	1	1	0	2	Technology
	Assistant Professor	3	3	0	3	
5	I	Renewable En	ergy Eng	ineering		
	Professor	0	0	0	1	
	Associate Professor	0	0	0	2	
	Assistant Professor	2	1	1	3	
6		Farm S	Structure	S		
	Professor	0	0	0	1	
	Associate Professor	0	0	0	2	
	Assistant Professor	1	1	0	3	
7	Basic	Science and O	Compute	r Technolo	ogy	

Table 3 Department wise faculty position

Professor	0	0	0	1	
Associate Professor	1	1	0	2	
Assistant Professor	1	1	0	3	

Table 3-A: Research Staff Involved in UG Teaching

S.No	Name of employees	Designation	Qualification
1	Dr. S.N. Solanki	Professor (CAS) and	M.Tech.(FMPE),
		Research Engineer	Ph.D. (FMPE)
2	Dr. D.D. Tekale	Professor (CAS) and	M.Tech.(FMPE),
		Agril. Engineer	Ph.D. (FMPE)
3	Dr. M.S. Pendke	Professor (CAS) and	M.Tech.(SWCE),
		Agril. Engineer	Ph.D. (SWCE)
4.	Er Ajay Waghmare	SRA, Agril. Eng.	M. Tech. (FMPE)

Table 4: Outsourcing from Other Constituent Colleges of VNMKV (2018-19 to 2022-23)

Academic	Session	Name of University	Qualification	Course	Credits
Year		Teacher		No.	
		Dr. P.K. Waghmare	Ph.D. (Agro.)	ASAGRO-	2(1+1)
2018-19	Monsoon/			111	
to	Summer	Dr. V.N. Shinde	Ph. D. (Hort.)	ASHORT-	2(1+1)
2022-23				111	
		Dr. R. N. Khandare	Ph.D.(SS & AC)	ASSS-111	2(1+1)
		Dr. R.C.Sawant	Ph.D.(Agril. Extn.)	DEG-111	1(1+0)
		Dr. R.C.Sawant	Ph.D.(Agril. Extn.)	ASEXTN-	2(1+1)
				231	
		Dr. S.B. Borgaonkar	Ph.D.(Agril. Botany)	ASESDM-	3(2+1)
		_		361	

Table 5 : Details of Contractual Teachers employed for completing curriculum of UG degree programme (2018-19 to 2022-23)

General Agriculture Sciences

Academic Year	Session	Name of Contractual Teacher	Qualification	Course No.	Credits
2018-19	Monsoon	V. D. Raut	M.Sc. (Agril. Extn)	AS-EXTN- 111	2(1+1)
		V. D. Raut	M.Sc. (Agril. Extn)	DEG-111	1(1+0)
		V. D. Raut	M.Sc. (Agril. Extn)	AS-EXTN- 231	2(1+1)
	Summer	M. S. Mokalikar	M.Sc. (Agril. Hort.)	AS-HORT- 121	2(1+1)

2019-20	Monsoon	Dr. P.K. Waghmare	M.Sc. (Agro.)	ASAGRO-III	2(1+1)
	Summer	S. A. Thalkari	M.Sc. (Agril. Hort.)	AS-HORT- 121	2(1+1)
		Ms. M. V. Pawar	M.Sc.(Environmental Science)	AS-ESDM- 361	3(2+1)
2020-21	Monsoon				
	Summer				
2021-22	Monsoon				
	Summer	V. R. Pisore	M.Sc.(Agril.Agro)	AS-AGRO- 121	2(1+1)
2022-23	Monsoon	S.A. Guldagad	M.Sc. (Agril. Extn)	AS-EXTN- 231	2(1+1)
	Summer				

Department of Basic Science and Computer Technology

Academic	Session	Name of	Qualification	Course No.	Credits
Year		Contractual			
		Teacher			
2018-19	Monsoon	K. V.Bothara	B.E.(E&TC)	BSCOMP-111	2 (1+1)
	Summer	G.S.Shekde	M.Sc.(Maths)	BSSTAT - 121	2 (1+1)
		Dr. Sayed	Ph.D.(Comp.	BSCOMP-122	2(0+2)
		Khizer	Science)		
2019-20	Monsoon	K.V.Bothara	B.E.(E&TC)	BSCOMP-111	2 (1+1)
	Summer	G.S. Shekde	M.Sc.(Maths)	BSSTAT - 121	2 (1+1)
		Dr. Sayed	Ph.D.(Comp.	BSCOMP-122	2(0+2)
		Khizer	Science)		
2020-21	Monsoon				
		G.S. Shekde	M.Sc.(Maths)	BSSTAT - 121	2 (1+1)
2021-22	Monsoon				
	Summer	S. E. Chavan	M.Sc.(Maths)	BSSTAT - 121	2 (1+1)
2022-23	Monsoon				

Department of Farm Structures

Academic	Session	Name of	Qualification	Course No.	Credits
Year		Contractual			
		Teacher			
2018-19	Summer	Er.C.J.Karegaonkar	B. E. (Mech.)	FS-122	2(1+1)
2019-20	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-233	2(1+1)
	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-111	3(2+1)
2020-2021	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-233	2(1+1)
	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-111	3(2+1)
2021-2022	Summer	Er.V.N.Karhale	B. E. (Civil)	FS-122	2(1+1)
	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-111	3(2+1)
2022-2023	Summer	Er.V.N.Karhale	B. E. (Civil)	FS-122	2(1+1)
	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-111	3(2+1)

Academic	Session	Name of	Qualification	Course	Credit
Year		Teacher		No	
2018-19		K. V. Bothra	B.Tech (Electronics &	EOES-	3 (2+1)
	(Monsoon)		Communication)	233	
	(Summer)	K. V. Bothra	M.Tech (Digital Communication)	REE-122	3 (2+1)
2019-20		Ms. S.N.	Ph.D. (Agril. Engg.) Renewable	REE-354	3 (2+1)
	(Monsoon)	Mustapure	Energy Engineering		
	(Summer)	K. V. Bothra	B.Tech (Electronics &	REE-122	3 (2+1)
			Communication) M.Tech (Digital Communication)		
	(Summer)	Ms. S.N.	Ph.D. (Agril. Engg.) Renewable	REE-365	3 (2+1)
		Mustapure	Energy Engineering		
2020-21		Ms. S.N.	Ph.D. (Agril. Engg.) Renewable	REE-354	3 (2+1)
	(Monsoon)	Mustapure	Energy Engineering		
	(Monsoon)	Ms. S.N.		ELE-	3 (2+1)
		Mustapure		REE-481	
	(Summer)	Ms. S.N.		REE-365	3 (2+1)
		Mustapure			
	(Summer)	Ms. S.N.		REE-111	2 (1+1)
		Mustapure			
	(Summer)	K. V. Bothra	B.Tech (Electronics &	REE-122	3 (2+1)
			Communication) M Tech (Digital		
			Communication)		
2021-22		Ms. S.N.	Ph.D. (Agril. Engg.) Renewable	REE-365	3 (2+1)
	(Monsoon)	Mustapure	Energy Engineering		
	(Summer)	Ms. S.N.		REE-354	3 (2+1)
		Mustapure			
	(Summer)	Ms. S.N.		ELE-	3 (2+1)
		Mustapure		REE-481	
2022-23		Ms. S.N.	Ph.D. (Agril. Engg.) Renewable	REE-243	3 (2+1)
	(Monsoon)	Mustapure	Energy Engineering		
		K. V. Bothra	B.Tech (Electronics &	REE-122	3 (2+1)
	(Monsoon)		Communication M.Tech (Digital Communication		

Department of Renewable Energy Engineering

6.4.3 Technical and Supporting staff

The following posts of technical and supporting staff for field experimentation/ laboratory work / workshop/farm work are in place at this college.

G				**		D
S .	Name of Post	Sanctioned	Filled	Vacant	Faculty	Deviation

No.		post	post	post	recommended by the ICAR regulatory body	(%)
	Dear	n's office and	l Central	staff fac	cility	
1	Asstt. Section Officer	01	01	-	01	0
2	Stenographer	01	01	-	02	50
3	Sr. Clerk	01	01	-	-	-
4	Jr. Clerk	05	01	04	06	16
5	Driver/Computer	01	01	00	03	67
	operator/technician					
6	Mazdoor	05	04	01	-	-
7	Agril. Assistant	02	01	01	-	-
8	Peon	05	04	01	02	-
9	Sweeper	05	04	01	-	-
10	Watchman	01	-	01	-	-
11	Electrician	01	-	01	-	-
	Department	t of Irrigatio	n and Dr	ainage I	Engineering	
1	PA/Steno	-	-	-	01	100
2	Clerk	-	-	-	01	100
3	Lab Assistant	01	00	01	02	50
4	Peon	-	-	-	01	100
Department of Soil and Water Conservation Engineering						
1	PA/Steno	-	-	-	01	100
2	Clerk	-	-	-	01	100
3	Lab Assistant	01	00	01	02	50
4	Peon	-	-	-	01	100
	Department o	of Basic Scier	ice and C	Compute	r Technology	
1	PA/Steno	-	-	-	01	100
2	Clerk	-	-	-	01	100
3	Lab Assistant	01	00	01	02	50
4	Lab Attendant	-	-	-	-	-
5	Peon	-	-	-	01	100
	Departm	ent of Renev	vable End	ergy Eng	gineering	100
1	PA/Steno	-	-	-	01	100
2	Clerk	-	-	-	01	100
3	Lab Assistant	-	-	-	02	50
4	Lab Attendent	01	-	01	-	-
5	Peon	-	-	-	01	100
1	DA/G	epartment o	t Farm S	tructure	2 S	100
	PA/Steno	-	-	-	01	100
$\frac{2}{2}$	Clerk	-	-	-	01	100
3	Lab Assistant	-	-	-	02	50
4	Lao Attendant	01	00	01	- 01	-
5	Peon	-	- 	-	01	100
1	Departme	of Agricu	itural Pr	ocess En	gineering	00
	Sr. Clerk	01	01	-	01	00
Ζ	reon	-	-	-	02	100

Department of Farm Machinery and Power Engineering								
1	Senior Research	01	00	01	-	-		
	Assistant							
2	Lab Assistant	-	-	-	02	100		
3	Lab Attendant	02	02	-	-	-		
4	Sr. Mechanic	01	01	-	-	-		
5	Driver	01	-	01	01	00		
6	Peon	-	-	-	01	100		
7	PA/Steno	-	-	-	01	100		
8	Clerk	-	_	-	01	100		
	Total	39	22	17	50	22		

In addition to the above, technical and supporting staff are deputed from central office facility and some are hired as per the need of the departments in particular semester.

6.4.4 Classrooms and Laboratories

Four model classrooms are established for effective teaching and learning processes. Theory classes are conducted with the help of audio-visual aids like K-Yan, LCD projector, charts and models etc. whereas practical are conducted in laboratories of the respective department, workshop, ELP unit, field laboratories such as micro irrigation laboratory, solar energy park, green house structures. Research farms of various research stations are being utilised for the exposure to UG students. Various laboratories available on the University campus such as agronomy, soil-water-plant analysis, horticulture, computer, CAD-CAM, electronics are being used for conducting the practical of basic science and engineering-oriented courses.

A well-equipped computer laboratory is established in the college with software facilities like ARIS/LAN, A to Z Watershed software, Pro-E, ANSYS, MATLAB and Simulink, RS & GIS and Design Expert. Advanced equipment like Total Survey Station, Pump test rig, IC Engine test rig, Digital hardness test rig, Metal composition testing machine, CNC machine, Leaf Area Meter, Water quality kit, Engine Test Rig, Laser Leveller, Texture Analyser, Bakery Unit, Hunter Colour Lab Meter, Water activity meter, Extruder, Universal testing machine, Compression testing machine are also available for practical and demonstrations to students.

Adoption of ICAR Model Curriculum

The College has adopted the curriculum approved by the ICAR with 20 per cent changes as per the regional needs. The four-year degree programme B.Tech. (Agril. Engg.) is comprised of 183 credits as shown in Table 7.

Departments /Division	Credits
Basic Science and Computer Technology	17
Agricultural Science	15
Department of Farm Machinery and Power Engineering	22
Department of Soil and Water Conservation Engineering	16
Department of Irrigation and Drainage Engineering	16
Department of Process and Food Engineering	16
Department of Farm Structures	12
Department of Renewable Energy Engineering	14
Elective Courses	09
General Agricultural Engineering (Seminar, In-plant training, Agricultural	41
Engineering Project)	
Educational Tour (Only one tour to be Gradial)	2
Non Gradial Compulsory Courses	3
Total	183

Table 7 : Inte	erdisciplinary	credit red	uirement as	per V th	Deans	Committee
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Table 8: Details of Classrooms

S. No.	Classrooms	Length	Breadth	Area	Seating Capacity
		(m)	(m)	(Sq.m)	
1	Lecture Hall No. 1	11.35	11.15	127	80
2	Lecture Hall No. 2	11.35	11.15	127	80
3	Lecture Hall No. 3	11.35	11.15	127	80
4	Lecture Hall No.4	11.35	11.15	127	80

Table 9 :Details of Laboratory

1. Department of Irrigation and Drainage Engineering

S.	Name of the Laboratory	Length	Breadth	Area	Seating Capacity
No.		(m)	(m)	(Sq.m)	
1	Irrigation Engineering Lab.	14.10	11.30	159	40
2	Fluid mechanics and Micro	11.30	21.00	237	40
	Irrigation Lab.				
3	Micro Irrigation Field Lab.	100	100	10000	40
4	Geo-informatics Computer	3.00	4.00	12.00	10
	Lab.				
5	Lysimeter-AWS Field Lab.	140	100	14000	40

2. Department of Soil and Water Conservation Engineering

S. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (Sq.m)	Seating Capacity
1	Soil Mechanics Lab.	10.60	11.15	118	40
2	Surveying and hydrology Lab.	14.05	11.05	158	40

3	Field Laboratory - Soil Water	100	100	10000	40
	Conservation Engineering				

3. Department of Agricultural Process Engineering

S. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (Sq.m)	Seating Capacity (No. of Student)
1	Crop Processing Engg.	11.28	14.32	162	40
2	Food Engineering	8.7	7.4	64	40
3	Quality control (ELP)	12.20	10.80	132	40

4. Department of Farm Machinery and Power Engineering.

		Length	Breadth	Area	Seating
S.	Name of the Laboratory	(m)	(m)	(Sq.m)	Capacity
No.	Name of the Laboratory				(No. of
					Student)
1	Workshop	10.60	21.80	231	40
2	Farm Power	11.15	21.40	239	40
3	Engineering Drawing Hall	11.15	18.80	198	40
4	Implement Shed	16.50	29.60	488	40
5	Exhibition Hall	10.60	22.00	233	40
6	CAD – CAM Laboratory	06.00	15.00	90	40
7	Drawing Hall	11.15	17.80	198	40

5. Department of Basic Science and Computer Technology

S. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (Sq.m)	Seating Capacity (No. of Student)
1.	Computer Lab.	10.50	11.15	117	40
2.	Physics Lab.	10.50	11.70	123	40
3.	Language Lab.	3	5	15	40

6. Department of Renewable Energy Engineering

S. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (Sq.m)	Seating Capacity (No. of Student)
1	Electrical/Chemical engineering Lab.	10.60	10.70	113	40
2	Renewable Energy	10.60	10.50	111	40
3	Energy Park (Field Lab.)	60	75	4500	40

7. Department of Farm Structures

S.	Name of the Laboratory	Length	Breadth	Area	Seating
No.		(m)	(m)	(Sq.m)	Capacity

					(No. of
					Student)
1.	Farm Structures Lab	10.50	22.00	231	40

Table 10 : Department-wise list of equipment/instruments/implements available

Sr.	Name of equipment					
110.						
	Department of Irrigation and Drainage Engineering					
1	Lysimeter to study crop water balance					
2	Automatic Weather Station					
3	GPS Units (Global Position system)					
4	Oven, Tensiometer, Electrical Conductivity Meter					
5	Double Ring Infiltrometer, pH Meter,					
6	Water Quality Testing Kit					
7	Components of Sprinkler and Drip Irrigation System					
8	Irrigation Water Measuring Devices (V-Notch, Parshall Flume, H-Flume, Orifice Plate)					
9	Venturimeter, Orifice Meter setup, Parshall Flumes, Mouthpieces					
10	Bernoulli's Theorem Apparatus					
11	Meta-centric height Apparatus					
12	Tilting flume apparatus					
13	Current meter, Pan evaporimeter, Electrical resistivity meter					
14	Different manometers					
15	Different components of pumping unit: impellers, foot valves, etc.					
16	Different flow control valves for pipe flow					
17	Different types of pipes and pipe fittings					
18	Pump test rig					
19	Different models: water regulating structures in canal irrigation: head regulators,					
	canal regulators, cross drainage works, etc					
20	Water Quality Analysis kit					
21	Photo Flame meter					
22	Leaf Area meter					
23	Drip Irrigation Automation Unit					
	Department of Soil and Water Conservation Engineering					
1.	Hot air oven, augers, moisture boxes, digital weighing balance					
2.	Digital soil moisture meter					
3.	Bulk density apparatus-core cutters					
4.	Soil temperatures meters, probe thermometer, infrared thermometer					
5.	Double ring infiltrometers					
6.	Falling head permeability test apparatus					
7.	Sieve shaker for particle size analysis					
8.	Consistency limits apparatus					
9.	Instruments for land survey, Plane table and its accessories, Prismatic and surveyors					
	compass, Dumpy levels and levelling staves, Automatic level ,Thedolite , Drafting table					
10.	Instruments for slope measurement-hand level, Abney level, clinometers etc.					
11.	Total Survey Station					

12.	Flow measuring devices-H-flume, Parshall flume
13.	Flow velocity measurement instruments-current meters
14.	Multi slot divisors and Runoff plots on field laboratory
15.	All types of rainfall recorders
16.	Stage level recorders
17.	Different evaporation pans
18.	Anemometer, Hygrometer
-	Department of Agricultural Process Engineering
1	Texture analyzer
2	Apparatus for angle of repose, anemometer.
3	Apparatus for measurement of properties of milk, cream separater
4	Autoclave
5	Mini Dal Mil
6	Refrigeration and freezing tutor
7	Parallel and counter heat exchanger
8	Soxhlet apparatus, Kzeldol apparatus
9	Infrared Moisture meter
10	Flour Mill
11	Mixer cum pulper
12	Models of handling equipments and Boilers
13	Vibration and drop tester, Box compression tester,
14	Spray dryer
15	Orbital shaking incubator
16	Horizontal laminar air flow cabinet
17	Bakery Unit
18	Water activity meter
19	Hunter Lab colori meter
20	Extruder
21	Multi grain Roster cum puller
	Department of Farm Machinery and Power Engineering
1	Tractor – 45 hp
2	Power Tiller, Reaper
3	Lathe Machine, CNC Machine, Shaper Machine, welding machine
4	
5	I ool kits with box (Ellen key set, Open end spanner set, Pliers, Nose pliers, Circlip
6	pilers)
0	Differential Battery Fuel injection nump
7	Models of Electrical system, Lubrication system, Cooling system, Tractor
,	hydraulic system
8	Mould board plough, Sub-soiler, Rotary tiller, Cultivator, Seed-cum fertilizer, drill
	Inclined plate planter, Vertical conveying reaper, Potato digger
9	Laser leveller
10	Set of animal drawn implements: disc harrow and cultivator
11	Potato planter, Sugarcane cutter planter
12	Knap sack sprayer
13	Wheat thresher, Paddy thresher, Multi crop thresher
14	Standard disc plough, Mould board plough

	Department of Basic Science and Computer Technology
1	One Server
2	Thin Clients- 24
3	Desktop PC-8
4	10KVÅ online UPS
5	Network Switches
6	Physics Lab equipment -
	Department of Renewable Energy Engineering
1	Electrical Tutor for three phase induction motor
2	Electrical Tutor for Single phase induction motor
3	Electrical Tutor for Slip-ring induction motor
4	Eight channels microprocessor-based temperature scanner
5	Em50 digital data logger: with data Trac III graphing software (single user) and solar radiation sensor (Pyranometer) with levelling plate
6	Pyranometer
7	SPV Submersible pump, SPV centrifugal pump
8	Solar wind hybrid power generating system
9	Solar water heating systems: Flat plate collector type, Evacuated Tube Collector
	type
10	Solar cookers: Scheffler type, Parabolic collector type, Box type
11	Solar Dryers: Tunnel type, Cabinet type, Rock bed type
12	Solar Distillation plant
13	Biogas Plants: Deenbandhu type, Floating drum type (AARTI model)
14	Biomass Gasifier
15	Biodiesel Processor
	Department of Farm Structures
1	Slump Cone Tess, Compaction Factor Test, Flow Table,
2	Le-chatelier mould
3	Vicat apparatus
4	Concrete cube mould
5	Universal testing machine (U.T.M Capacity of 40 tone)
6	Compression testing machine capacity-1000 KN
7	Aggregate impact testing machine
8	Stiffness of spring test, hardness test
9	Force tables
10	Differential axle and wheel, single purchase crab, double purchase crab, worm and
	worm wheel
11	Models of shade net house, green house, construction technology, trusses

Lysimeter and Automatic Weather Station (AWS) Field Laboratory

The project on determination of crop coefficient of different crops using lysimetric studies is operational at the experimental farm of Department of Irrigation and Drainage Engineering. A lysimeter is used to measure actual evapotranspiration of plants by recording the amount of precipitation that an area receives, and the amount of water lost through the

soil and evapotranspiration. Three lysimeters are installed at this experimental field. Data logger is provided to display the output of crop water requirement and quantity of removal of drain water. Similarly Automatic Weather Station (AWS) is installed at the experimental farm to provide daily data of climatic parameters such as maximum & minimum temperature, relative humidity, rainfall, wind speed, wind direction, solar radiation, and barometric pressure, etc.



Lysimeter installed in cropped field



Automatic Weather Station installed in the field
Micro Irrigation Field Laboratory:

The college has developed micro irrigation field laboratory on 0.5-hectare area. The laboratory has micro irrigation systems which include different filters (sand filter, screen filter, disc filter and hydro-cyclone filter), venturi, fertilizer tank and dozer pump for introduction of liquid and water-soluble fertilizers. The laboratory is also equipped with time-based drip automation unit for conducting practical for UG students.

College has instructional farm of 2.5 ha with bore well, submersible pump set, pump house and sub surface conveyance pipe network, farm pond of 15x15x3 m size and 12-compartment run-off plots for conducting students practical and research projects under UG programme. Similarly, 22.15 ha demonstration cum research farm is also allotted to college for large scale demonstration of advanced technologies.



Computer lab

Workshop facilities





Experiential Learning Unit

During 2012-13, an Experiential Learning Unit on 'Processing of Pulses and Oil seeds' is established in the college for the skill development and experience for the students and also for teaching and demonstration under UG degree under IVth Dean's Committee syllabus. To develop skill and entrepreneurship among students, various instruments, and equipment such as soya milk and soya paneer pilot plant, bakery unit, extruder and pulse milling pilot plant for production of pulse-based products are installed in addition to testing facilities. The said ELP facility is used for practical and research projects of UG, PG & Ph.D. students and training and demonstration to the farmers. Various process technologies are developed for soya milk, soya paneer, okra-based bakery products, dehydrated chunks, extruded products and soya nuts, pearl millets kharodi, oil extraction from turmeric leaves and soychikki. Similalrly, machines like electrically operated roaster cum puffer, LPG operated Puffing cum popping machines are designed and developed to produce puffed/ popped products from sorghum, pearl millets, maize, groundnut, soybean and Bengal gram. Trainings and demonstrations on developed technologies and machineries are being

organized for SHG and staff of KVK's and developmental departments, farmers, and entrepreneurs.



Experiential Learning Unit

Renewable Energy Park

Renewable Energy Park is created which is spread on 0.5 ha area and provided with on-field installation of solar water pumping set (capacity 1 hp), solar wind hybrid system (800 W capacity), KVIC and Din Bandhu bio-gas plants, tunnel dryer, rock bed dryer, distillation unit, ETC and flat plate solar water heater, bio-mass gasifier, different solar street lights for conducting practical and research projects of UG programme.



Renewable Energy Park

Theory and practical batches

The in-take capacity of B. Tech. (Agril. Engg.) degree programme is 64 students. One batch of 64 students for theory class and four batches each of 16 students are formed for practical class.

6.4.5 Conduct of Practical and Hands on Training

Conduct of Practical

The practical and hands on training are conducted in the laboratories of respective department and field allocated to concerned department. The practical are conducted as per the lesson plan by using the requisite instruments and facilities available in the respective laboratories, on farm, workshops, ELP unit, solar energy park, micro irrigation laboratory, farm ponds, green house and shade net structures and dairy farms. The various techniques are being demonstrated to the students and students perform actual practical. The students record their experimental results in their practical manual. In seventh semester UG students undergo industrial attachment and experiential learning for 20 credits. Eighth semester students of B.Tech. (Agril. Engg.) register 9 credits (3 courses) of practical oriented elective courses from different departments. In addition, they have one seminar (1 credit) and research project (10 credits).





Hands on Training

The students are deputed for one-month industrial training after IVth and VIth semester. Whereas in VIIth semester students are deputed for four months exhaustive In-plant training. The students are exposed to different industries such as irrigation, food, tractor, farm implements, NGO'S, research organizations for In-plant training. The training constitutes day to day practical activities such as production process, quality testing, measurements and the research and developmental activities to promote their innovative ideas and skills. Students acquire skills through hands on training. The students are also exposed to marketing and management activities. Training helps the students to minimize gap between theoretical knowledge and practical applications.



UG students undergoing Hands on Training at CIAE, Bhopal

6.4.6 Supervision of Students in Undergraduate Programme – Not Applicable 6.4.7 Feedback of stakeholders (students, parents, industries, employers, farmers, etc.)

College has well defined feedback mechanism for different stakeholders i.e. students, parents, industries, employers, and farmers. Real feedback of the students is also collected frequently through the suggestion and complaint box placed in the office of Associate Dean & Principal. Regular students-parents meeting with college authorities are organized to take feedback from the parents. Employees are encouraged to give their feedback during monthly meetings while farmer's suggestions and feedback are taken directly through interactions and through letters. College authority takes action as per rules on the issues raised in the feedback of stakeholders. The summary of feedback received from different stakeholders and action taken are presented in following tables.

Student's Feedback Mechanism

- The students are encouraged to give the FEEDBACK in the prescribed form
- Prescribed FEEDBACK form is provided at Education section of the college for registered students and pass out students can download the feedback form from the College Website. Students submit the FEEDBACK form to the education section or they drop the feedback form in the suggestion box kept in the office of Associate Dean and Principal.
- Filling the feedback form is voluntary.
- The feedback information received is used to improve the overall standards in the college in developing both academic and non-academic facilities.
- In addition the Advisors / ADP conducts separate interaction secession's to get students feedback overlay / in writing through feedback form.
- The information provided by the students in the feedback form is kept confidential.

Redressal Mechanism

- The feedback forms are scrutinized, and specific suggestions are discussed in the monthly meeting. The suggestions and feedback are addressed by the concerned college committee.
- Feedback is also discussed in the Board of Study and Academic staff meeting at college level.
- If required, the feedback is also taken up in the Faculty Meeting to formulate policies.

Alumni Feedback Form

Degree Program Completed: B.Tech. / M.Tech. /Ph.D. (Agricultural Engineering)

Discipline in case of PG Degree:

Name of the Student: Registration No. :

Year of Admission:

Year of Degree Completion :

Present Status: Job / Occupation:

Your Opinion About College: Tick the appropriate one: ($\sqrt{}$)

Sr.	How would you rate the following	Excellent	Very	Good	Satisfactory
No			Good		
1	How do you rate the courses that you				

	learnt in the college in relation to your
	current job / occupation
2	Admission Process
3	Faculty
4	Educational Resources
5	Library Facilities
6	Infrastructure and Lab Facilities
7	Examination Process
8	Sports Facility
9	Overall Rating

Please provide your valuable suggestions for improvement of the institute-

.....

Place:

Date:

Signature Name: Contact No:

Students Feedback Form

(For Registered Student)

Degree Program: B.Tech. /M.Tech. /Ph.D. (Agricultural Engineering)Discipline in case of PG Degree :Name of the Student :Registration No. :Year of Admission :Semester:

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the programme of studies / institution.

Sr.	How do you rate the following	Excellent	Very Good	Good	Satisfactory
Ac	ademic Resources (Faculty)				
1	Mentoring and Motivating Students for				
I	Academic Growth and Development				
2	Content of Syllabi of the Courses				

3	Extent of Syllabi covered in the Class				
4	Delivery of Content in the Class				
5	Regularity and Sincerity				
6	Subject Expertise				
7	Linking Theory with Examples and Practices				
8	Accessibility for Interactions				
0	Use of Teaching Aids and ICT in the Class to				
9	Facilitate Teaching				
10	Encouragement for Out of the Box and				
10	Innovative Thinking				
11	Encouragement for Co-Curricular and Extra-				
11	Curricular Activities				
12 Sr.	Over all Learning Experience with the faculty How do you rate the following	Excellent	Very Good	Good	Satisfactory
Ac	ademic Activities				
1	Seminars				
1	Special Lectures /Guest Lectures/Wirtual				
2	Lectures				
	Handson Training/In-plant Training for				
3	Academic Enhancement				
4	Class Presentations/ Projects/ Workbooks				
_	Use of Teaching Aids and ICT in the Class to				
5	Facilitate Teaching				
6	Multidisciplinary Projects/ Live Projects				
_	Industrial Attachment and Experiential				
1	Learning Program				
8	Placement Cell Activities				
9	NSS / NCC Activities				
Inf	rastructural Facilities			1	
1	College Website				
2	Class room Infrastructure				
3	Girls Common Room				
5	(only for female students)				
4	Drinking water facility				
5	Washroom Cleanliness and maintenance				
6	Greenery in the college campus				
7	Cleanliness and maintenance of college				
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Any other **SUGGESTIONS** :

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•••••	•••••	•••••	 	 •••••	

Place:

Signature of the Student Name: Mobile No:

Parent's Feedback Form

1. 2. 3.	 Name of the parent and relation with stu Name of students with Reg. No. Degree Address of the parent: 	dent: Prog.:
4.	4. Name of Student's Adviser:	
5.	5. Purpose of visit:	
6.	 Do you get periodical information of wa attendance: Yes / No 	rd about his/her academic progress and
7.	7. Feedback/ comments of parent:(tick the	appropriate)
	• Ward's Security : E	xcellent / Very good / Good / Satisfactory
	• Co-operation from faculty : E	xcellent / Very good / Good / Satisfactory
	• Administrative support : E	xcellent / Very good / Good / Satisfactory
	 Process of ward's leaving/ joining the 	hostel: Excellent / Very good / Good /
		Satisfactory
	 Present Fees structure: Satisfactory / 1 	Non - Satisfactory
8.	8. Parent's general opinion about to colleg	e / hostel/ classes / teaching / practical /
9.	9. Parent's suggestion for improvement	

Signature of parent

Contact No. -----

Farmers/Farmers' Group / S.H.G. / F.P.O. Feedback Form

1.	Name of the farmer / Farmers' Group. :
2.	Address of the farmer/Farmers' Group. :
3.	Date of Visit to college / Dept. / Unit. :
4.	Name of Department / Unit to which Farmer's visit and queries are related: IDE /
	SWCE / FMP / APE/ REE/BSCT/FS.
5.	Brief information of farmer's query:
6.	Name of Attending scientist / Faculty / Technical Person:
7.	Comments of farmer/ group of farmers
I	 Resource and Guidance by University Scientist: Excellent/Very good/Good/
	Satisfactory
ı	The area in which field Training / Demonstration is required:
8.	Farmers general opinion about College / Unit / Department.

Signature

Contact No. -----

Industry Feedback Form

1.	. Name and address of Company / Industry:									
2.	Name	of	officer/	representative	with	designation:				

Signature.

Contact. No. -----

Sample feedback is presented below:

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Table 11 : Feedb	ack of Students
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S. No	Name of students	Mode of communication	Date	Concern	Action taken
1	Satpute Ajay	Discussion	12/9/2018	Wall Clocks in Examination Hall	Wall clocks are installed
2	Raut P.P.	Discussion	11/8/2018	Extra classes for Mathematics for repeaters	Extra classes are conducted
3	Mane R.V.	Discussion	11/8/2018	Streetlight on Hostel Road	Streetlights on hostel road are installed.
4	Girls Students	Discussion	11/8/2018	Separate training for Tractor Driving	Special camp was arranged for girl students.
5	S.M.Chandan	Discussion	11/8/2018	Request for Analysis soft ware	Surfer software was procured
6	Final year students	Discussion	15/12/2018	Request for Personality development training	Training was conducted
7	Final year students	Applications	-	Request for deputing for in- plant training in the interested field.	Students are very much satisfied with their allocation to the desired area of interest and the standard of the institute deputed for in-plant training. Most of the students acquire the professional skills and secured employment in the related area of in- plant training institute.
8.	Final year students	Opinion	-	Satisfaction regarding In-plant training	Some students expressed great satisfaction towards the way of training imparted to them and hospitality extended to them during the training period by the respective institute.

1 40								
S.	Name of	Mode of	Date	Concern	Action taken			
NO	Parents	communication						
1	Madhav Chendge	Discussion	15/7/2018	Facilities at Girls Hostel	Facilities are provided.			
2	Lokare Laxman	Discussion	16/9/2018	Results to be conveyed to parents	Results are being conveyed			
3	Anantrao Sangle	Discussion	20/12/2018	Drinking water facility should be made available	RO plant and water coolers are provided in hostel.			
4	Nivaruti More	Discussion	20/12/2018	Security at hostel	Installed CCTV camera			
5	Vishwanath Mujmule	Discussion	25/2/2019	Career development guidance	Placement cell is in operation with regular activities			

Table 12 : Feedback of Parents

Table 13 : Feedback of Faculty

Sr.	Name of	Mode of	Date	Concern	Action taken
No	Faculty	communication			
1	V.M.	Discussion	21/11/2018	Renovation	Renovation work has
	Bhosale			of Staff	been undertaken.
				Room in	
				BSCT	
2	V.K. Ingle	Discussion	22/8/2018	Provision	Printer is purchased
				of printer	
3	P.G. More	Discussion	21/8/2018	Labour at	Female labour for Girls'
				girls hostel	hostel are provided
4	S.D. Vikhe	Discussion	5/12/2018	Demanded	Benches are provided at
				benches in	hostel
				hostel	
				premises	

Table 14: Feedback of Farmers

Sr.	Name of	Mode of	Date	Concern	Action taken
No	Farmer	communication			
1	Sandip Tengase	Personal visit	17/09/2018	Soybean milk processing	Guidance was provided
2	Vinayak Karde	Personal visit	20/09/2018	Enquiry regarding soya milk plant	Information regarding soymilk plant was given
3	Bomble Vaijanath	Personal visit	06/03/2019	Availability of machinery	Information regarding machinery

				for soya processing	was given.
4	Chavan Jaideep	Personal visit	14/06/2019	Soya product	Information about soy products and processing machinery is given.
5	Ganesh Hingmire Patent Officer	Personal visit	22/07/2019	Feedback as nice experience and wonderful inventions	Information developed processing technology was given.
6	Sandeep Dixit	Personal visit	03/09/2019	Packaging of soya paneer	Information regarding packaging technology of soypaneer was given.
7	R. B. Dayma	Personal visit	28/06/2021	Enquiry of Processing plant for soyoil and soymeal	Furnished information of processing plant for soyoil and soymeal
8	Mauli Pardhe	In person visit to ELP	08/07/2021	Mashroom/ Onion Dehydration issue	Given information on blanching and demonstrated with his samples
9	Nitin kale	Personal visit	13/08/2021	Enquiry regarding Food processing machinery dal mill	Information of dal mill was given.
10	Ramkisan Ghuge	In person visit to ELP	05/10/2021	Soya Paneer preparation issue	Demonstration was given during the practical class
11	J. D. Surve	Personal visit	14/02/2022	ELP unit is useful for training to students	Information of ELP unit for training was given
12	Shivaji Kachwe	Telephone	13/07/2022	Dal Milling issues	Given demonstration on Dal Milling at ELP
13	Santosh Barahate	In person visit to ELP	10/10/2022	Turmeric leaf oil extraction	Demonstrated steam distillation method of turmeric leaf oil extraction
14	Hanuman Shisode	In person visit to ELP	02/01/2023	Turmeric leaf oil extraction	Demonstrated steam distillation method of turmeric leaf oil extraction

1	5.	Dr. Vinayak	Personal visit	17/5/2018	Clogging of	Gave the information
		Magar At			emitters	on reclamation and
		SonnaTq. Sailu				prevention measures
						for emitter clogging.

Table 15: Feedback of Entrepreneurs

Sr.	Name of	Mode of	Date	Concern	Action taken
No	Entrepreneur	communication			
-			26/12/2010		
	Amol Harkal	Personal visit	26/12/2018	Enquiry regarding process technology popped and puffed products	Information of electrically operated multigrain popping cum puffing machine was given.
2	Sanjay Hatwar	Personal visit	04/01/2020	Enquiry for popping/ puffing of grain.	Information of popping/puffing machinery was given.
3	Dr. D. S. Bhawar	Personal visit	14/01/2020	Enquiry regarding processing machinery suitable for women.	Information of suitable processing technologies for start-ups for women was given.
4	Yogita Khandebharad	Personal visit	22/03/2020	Electrically operated roaster for popping of multigrain	Information of roaster was given.
5	Dr. Kanhaiya Kadam	Personal visit	20/10/2021	Enquiry new industries based on agricultural produce.	Information of technology support for new industries based on agricultural produce was given.
6	Vijay Jadhav	Personal visit	26/06/2022	Multigrain roaster	Information of roaster was given.
7	Avinash Tidke	Personal visit	27/09/2022	Processing of multigrain	Information was given regarding machinery available for popping/ puffing of multigrain.
8	Mahesh Mohagaonkar, Basmat	Visit to Manufacturers plant at Basmat	02/08/2022	Turmeric boiler mountings and	Guided about usage of certified mounting and accessories.

				accessories related	
9	Tanpure,	In person visit	16/09/2022	Turmeric	Helping in design of
	Padmati boilers	to the		boiler	advance boilers
	Basmat	Department		capacity	
				related issues	
10	Madhav Barse,	In person visit	29/07/2022	Turmeric	Given information
	Malegaon	to the		boiler	about boiler
		Department		certification	regulating
				issue	Government agency

6.4.8 Student intake and attrition in the programme for last five years

	B. Tech. Agril. Engg.							
Batch	Rotch Students admitted				Attrition (%)			
Daten	M No.	%	F No.	%	M No.	%	F No.	%
2018-2019	46	75.40	15	24.60	02	4.34	01	6.66
2019-2020	52	76.47	16	23.52	02	3.84	00	0.0
2020-2021	44	62.50	20	31.25	00	0.0	00	0.0
2021-2022	45	78.94	12	21.05	01	2.22	00	0.0
2022-2023	21	53.84	18	46.15	00	0.0	02	11.11

Table 16 : Student intake and attrition of UG programme.

6.4.9 ICT Application in Curricula Delivery

The College has a well-established Computer Lab with 24 thin clients, Wi-Fi and printing facilities. The smart classrooms are equipped with LCD projectors for power point presentations. The departmental facilities are provided to students for presentation of class reports and seminars. Course teachers used Agricultural Engineering e-resources and shared audio video lectures and Power Point Presentations for effective teaching learning process.



Smart Classroom

Following ICT tools are used in smart classrooms and laboratories for teaching and conducting demonstrations and Practical of UG courses.

- 1. Desktop and Laptop
- 3. Interactive White Board
- 5. Digital Podium
- 7. Wireless Microphone for Convenience
- 9. Speakers

- 2. Printer
- 4. Interactive Projector- Kayon
- 6. Digital Camera
- 8. Multimedia Pens/Stylus

Certificate

I, Dr. U. M. Khodke, **Dean** College of Agricultural Engineering & Technology, Parbhani hereby certify that the information contained in section 6.4 and Section 6.4.1 to 6.4.9 are furnished as per the records available in the college and degree awarding University.

(U.M. Khodke) Dean

Date:

Seal:

6.4 Self-Study Report of the PG Programme

Master of Technology (Agricultural Engineering) in 1) Irrigation and Drainage Engineering

6.4 Self Study Report of PG programmes

6.4.1 Brief history of PG programmes

The post-graduate programme leading to M. Tech. degree is started during the year 1998 in Soil and Water Conservation Engineering and Later on in other in three disciplines viz. Agricultural Process Engineering, Farm Machinery and Power Engineering, Irrigation and Drainage Engineering during 2002-03. The post-graduate programme leading to M.Tech. degree in Irrigation and Drainage Engineering was started in 2002.

The new and restructured PG programmes in Agricultural Engineering and Technology recommended by National Core Group of ICAR, New Delhi is being implemented from 2009-10 onwards. Since few academic staffs were deputed for higher studies, the intake capacity of the M. Tech. programme was reduced to two students in 2018-19 and it was assumed as 4 students per disciplines afterwards.

The existing contents of M. Tech syllabus was examined critically, restructured and updated keeping in view the latest developments in the subject areas.

Mission and Goals

Mandate of the College

The institute is working with three mandates of education, research and extension in which the institute imparts quality education, conducts applied research and transfers Agricultural Engineering technologies to farmers and students.

Mission Statement

To impart professional knowledge and skills to students to empower them for self-employment

Goals

- To meet the needs of farmers, industries, R & D organizations and educational institutions.
- To develop capabilities among the students for their overall professional development and make them updated to face the future challenges in agriculture.
- Continuing education to impart for re-engineering on socio-economic systems in the light of global technology changes.

Objectives

- To educate postgraduates in the field of agricultural engineering so as to prepare them as leaders in industry and profession.
- To upgrade the laboratories and infrastructure facilities as per the requirements of syllabus for providing quality education to PG students.
- To conduct need-based quality research by applying engineering principles to solve the problems of agricultural eco-system and also making sincere efforts to transfer the agricultural engineering technologies for empowerment of students and farmers.
- To update the faculty by exposing them to advanced trainings and higher studies.
- To establish Institute-Industry linkages.
- To establishcollaborations through MoUs with various research organizations and institutes, to conduct innovative research.

Table 1: M.Tech. (Agril. Engg.) degree programmes offered with duration

Programme	Name of the Disciplines	Year of	Duration
		Establishment	
M. Tech.	Irrigation and Drainage Engineering	2002-2003	2 Year
(Agril. Engg.)			(4 Sem.)

Salient features of organization of course contents and credit requirements:

Code Numbers

- All courses are divided into series: 500-series courses pertain to Master's level
- Credit seminar for Master's level is designated by code no. 591.

• Similarly the 599 have been given for Master's research.

Course Contents

The contents of each course are organized into:

- Objective to elucidate the basic purpose.
- Theory units to facilitate uniform coverage of syllabus for paper setting.
- The list of journals pertaining to the discipline is provided at the end of course content which is useful as study material for 500-series courses as well as research topics.
- E-Resources are provided for quick update on specific topics/events pertaining to the subject.
- Broad research topics provided at the end would facilitate the advisors for appropriate research directions to the PG students.

Major courses: The subject discipline (Department) in which the students take admission Minor courses: The subject closely related to student's major subject.

Supporting courses: The subject not related to the major subject. It could be any subject considered relevant for student's research work.

Non-Credit Compulsory courses: Six courses (PGS 501 to PGS 506) are of general nature and are compulsory for Master's programme.

Minimum course and research credits requirement for the award of M. Tech. (Agril. Engg.) degree is given in Table 2.

Table 2: M	linimum	course	and	research	credits	requirement	for	the	award	of	M.
r	Tech. (Ag	ril. Eng	g.) d	egree (till	2021-22	2)					

Credit Distribution	M.Tech. (Agril. Engg.)
Major courses	20
Minor courses	09
Supporting Courses	05
Seminar	01
Research Work	20
Non-credit compulsory courses	06
Total	55

Minimum Credit requirement as per BSMA syllabus implemented from 2022-23

Course Details	M.Tech. (Agril. Engg.)
Major Courses	20
Minor Courses	08
Supporting/Optional	06
Common PGS Courses	05
Seminar	01

Research	30
Total	70

Course structure of Master's Programme as per BSMA Syllabus (2022-23)

6.4.2 Faculty Strength

For smooth conduct of PG degree programme, in addition to the faculty members at College of Agricultural Engineering and Technology, services of faculties of Agricultural Engineering working under various establishments in the campus such as Agriculture Colleges and research stations of the University are being engaged for course work and research work.

For fulfilling the requirements of supporting special and non credit compulsory courses of PG programme, common arrangements are made at the University level.

Sr. No.	Post	Sanc. post	Filled Post	Vacant	Faculty Recom mended by the ICAR regulat ory body	Devia tions (%)	Remarks
01.	Professor	0	0	0	1	100	Services of Teaching
02.	Associate Professor	1	0	0	2	50	Staff from Agriculture, the research project &
03.	Assistant Professor	2	2	0	3	33	dept. of Agriculture Engineering COA, VNMKV, Parbhani & BSCT are spared and deputed to support the teaching and research activities of PG programme at CAET.

 Table 3 : Faculty position of Department of Irrigation and Drainage Engineering

Major / Minor / Dual / Guest / Adhoc Faculty for Different Departments:

Sr. No.	Major Faculty	Minor Faculty	Dual Faculty	Guest / Adhoc Faculty	Other University Staff
01.	Dr. H.W. Awari	Prof. B.W.	Dr. M.S.		(1) Prof. Bharti (Stat),
		Bhuibhar	Pendke		(2) Dr. S.S. Kadam
02.	Dr. S.B. Jadhav	Dr. M.R. More			(Library Science),
03.	Dr. V.K. Ingle	Dr. S.D. Vikhe			(3) Dr. P.S. Kapse
04.	Dr. U.M.	Prof. V.M.			(Ext. Education),
	Khodke	Bhosle			(4) Dr. Suresh Waikar
05.		Dr. R.V. Shinde			(Soil Science),
					(5) Dr. D.S. Perke
					(Economics)

6.4.3 Technical and supporting staff

The following posts of technical and supporting staff for field experimentation/

laboratory work/ workshop / farm work are in place at this college.

 Table 4 : Technical and supporting staff of Department of Irrigation and Drainage

 Engineering

S. No.	Name of Post	Sanctioned post	Filled post	Vacant post	Faculty recommended by the ICAR regulatory body	Deviation (%)
1	PA/Steno	-	-	-	01	100
2	Clerk	-	-	-	01	100
3	Lab Assistant	01	00	01	02	00
4	Peon	-	-	-	01	100

6.4.4 Classrooms and Laboratories

Each department of Irrigation and Drainage Engineering has well developed PG classroom and well-equipped laboratories. The theory classes are conducted with the help of audio-visual aids like K-Yan, LCD projector, etc.

Practical are conducted in laboratories of the department, Field laboratories such as micro irrigation laboratory, green house structures, and farms of the research stations are being utilised for the demonstration of practical of PG courses. Computer laboratory, CAD-CAM laboratory and language laboratory are established in the college with software facilities like ARIS / LAN, A to Z Watershed software, Pro-E, ANSYS, MATLAB and Simulink, GIS and Design Expert and utilised for teaching and research work. Advanced equipments like total survey station, pump test rig, digital hardness test rig, Leaf area meter, water quality kit, Laser leveller, Water activity meter, Extruder, Electrically operated roaster, Universal testing machine and compression testing machine are available for practical and demonstration in the department.

Lysimeter and Automatic Weather Station (AWS) Field Laboratory

The project on determination of crop coefficient of different crops using lysimetric studies is operational at the experimental farm of Department of Irrigation and Drainage Engineering. A lysimeter is a measuring device which can be used to measure actual amount of evapo-transpiration of plants by recording the amount of precipitation that an area receives and the amount of water lost through the soil and evapo-transpiration. Three lysimeters are installed at this experimental field. Data logger is provided to display the output of crop

water requirement and quantity of removal of drain water. Similarly Automatic Weather Station (AWS) is installed at the experimental farm to provide daily data of climatic parameters such as maximum & minimum temperature, relative humidity, rainfall, wind speed, wind direction, solar radiation and barometric pressure etc.



Visit \of former Vice-Chancellor Dr. A. S. Dhawan and Dr. U. M. Khodke, Dr. H. W. Awari, Dr. V. K. Ingle to field irrigation laboratory.



Lysimeter installed in cropped field



Automatic Weather Station installed in the field

Micro Irrigation Field Laboratory

College has developed micro irrigation field laboratory on 0.5 ha area. The laboratory has different micro irrigation system with filters (sand filter, screen filter, disc filter and hydro-cyclone filter). It is also equipped with ventury for introduction of liquid fertilizers, fertilizer tank and dozer pumps. The laboratory is also equipped with time based drip automation unit and is very useful for conducting M.Tech. programme practical on irrigation systems.

Remote Sensing and GIS laboratory

College has established Remote Sensing and GIS laboratory equipped with 04 PCs, furniture, internet facility and GIS software and other softwares like WMS, Terrset and Global Mapper. In addition to above the laboratories established under National Agricultural Higher Education Project (NAHEP) on use of drones, robots and AGVs for providing digital farming solutions are used for practical and demonstration and research of PG students.

Instructional and Research Farm

College has an instructional farm of 2.5 ha provided with irrigation facilities and mango plantations on 2 ha area and 12-compartment run-off plots are provided for facilitating conduct of practical and research projects of M. Tech. programme.

PG Classrooms

Separate classrooms for PG programme are established in the Dept. of Irrigation and Drainage Engineering

Laboratories

		0		0	8 8
S.	Name of the Laboratory	Length	Breadth	Area	Seating Capacity
No.	Name of the Laboratory	(m)	(m)	(sq.m)	(No. of
					Student)
1	Irrigation Engineering Lab.	14.10	11.30	159	40
2	Fluid mechanics and Micro Irrigation Lab.	11.30	21.00	237	40
3	Micro Irrigation Field Lab.	100	100	10000	40
4	Geo-informatics Computer Lab.	3.00	4.00	12.00	10
5	Lysimeter-AWS Field Lab.	140	100	14000	40

Table 5 : Details of Laboratories in Department of Irrigation and Drainage Engineering

Table 6: Details of list of equipments/instruments/implements

Sr.	Name of Equipment
No.	
	Department of Irrigation and Drainage Engineering
1	Oven, Tensiometer, Electrical Conductivity Meter
2	Double Ring Infiltrometer, pH Meter,
3	Water Quality Testing Kit
4	Sprinkler and Drip Irrigation System Components
5	Irrigation Water Measuring Devices (V-Notch, Parshall Flume, H-Flume, Orifice
	Plate)
6	Venturimeter, orifice meter setup, Parshall Flumes, Mouthpiece
7	Bernoulli's Theorem Apparatus
8	Meta-centric height Apparatus
9	Tilting flume apparatus
10	Current meter, Pan evaporimeter, Electrical resistivity meter
11	Different manometers
12	Different components of pumping unit: impellers, foot valves, etc.
13	Different flow control valves for pipe flow
14	Different types of pipes and pipe fittings

15	Pump test rig
16	Different models: water regulating structures in canal irrigation: head regulators,
	canal regulators, cross drainage works, etc
17	Water Quality Analysis kit
18	Flame Photo meter
19	Leaf Area meter
20	Drip Irrigation Automation Unit

6.4.5 Conduct of Practical and Hands on Training:

Conduct of Practical

The practical and hands on training are conducted in the laboratories of respective departments and field allocated to concern department. The practical are conducted as per the lesson plan by using the requisite instruments and facilities available in the respective laboratories, on farm, workshops, ELP unit, solar energy park, Micro irrigation laboratory, farm ponds, green house and shade net structures. The techniques are demonstrated to the students and actual experiments are performed.

Hands on Training

The students are deputed to different industries such as Irrigation, NGO's, Research Organizations for advanced training for the period of three weeks for M. Tech. programmed to get exposure. The training constitutes practical activities such as production process, quality testing, measurements and research and developmental activities to promote their innovative ideas and skills. Students acquire skills through hands-on practice. The students are also exposed to marketing and management activities of various enterprises. Training helps the students to minimize the gap between theoretical knowledge and practical applications. The students also get an idea for planning and execution of their PG research work.

6.4.6 Supervision of students in M. Tech. programme

One supervisor (guide) is allotted to every PG Student for supervision of research work. The supervisor monitors academic and research activities of students through Student Advisory Committee.

Sl.	Year	IDE
No.		Dept.
1	2018-19	02
2	2019-20	03
3	2020-21	03
4	2021-22	04
5	2022-23	02

 Table 7: Details of students allotted for supervision of research work in the M. Tech.

 degree programme

Table 8 : Details of students a	allotted for supervision	of research	work in the	M. Tech.
degree programme (Department of IDE)			

S. No.	Year	Name of Faculty	No of Students
1	2018-19	Dr. H.W. Awari	01
		Dr. V.K. Ingle	01
2	2019-20	Dr. V.K. Ingle	01
		Dr. S.B. Jadhav	01
		Dr. U.M. Khodke	01
3	2020-21	Dr. H.W. Awari	01
		Dr. S.B. Jadhav	01
		Dr. U.M. Khodke	01
4	2021-22	Dr. S.B. Jadhav	01
		Dr. V.K. Ingle	01
		Dr. H.W. Awari	01
		Dr. S.D. Vikhe	01
5	2022-23	Dr. V.K. Ingle	01

6.4.7 Feedback of stakeholders (Students and parents, industries, etc.)

College has well defined feedback mechanism of different stakeholders i.e. students, parents and industries. Real feedback of the students was also collected frequently from the suggestion and complaint box placed near Associate Dean and Principal office. Regular students-parents meeting with college authorities were organized to take feedback from the parents. Employers are encouraged to give their feedback during monthly meetings while farmers suggestions and feedback were taken directly through regular inward procedure. College authority has taken action as per rules on the issues raised in the feedback of stakeholders.

Student's Feedback Mechanism:

- The students are encouraged to give the FEEDBACK in the prescribed form
- Prescribed FEEDBACK form is provided at Education section of the college for registered students and pass out students can download the feedback form from the College Website. Student are submitting the FEEDBACK form to the education section or they drop the feedback form in the suggestion box kept in the office of Associate Dean and Principal.
- Filling the feedback form is voluntary.
- The feedback information received is used to improve the overall standards in the college in developing both academic and non-academic facilities.
- In addition the Advisors / ADP conducts separate interaction secession's to get students feedback overlay / in writing through feedback form.
- The information provided by the students in the feedback form is kept confidential.

Redressal Mechanism

- The feedback forms are scrutinized and specific suggestions are discussed in the monthly meeting. The suggestions and feedbacks are addressed by the concerned college committee.
- Feedbacks are also discussed in the Board of Study and Academic staff meeting at college level.
- If required, the feedbacks are also will be taken up by in the Faculty Meeting to formulate policies.

Students' Feedback




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Partents' Feedback



Farmer Group Feedback

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6.4.8. Student intake and attrition in the programme for last five years

Name of the		Stud	ents adm	itted			Att	rition (%)	
Degree Programme M.Tech	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23	2018- 19	2019 -20	2020 -21	2021 -22	2022 -23
Irrigation and Drainage Engineering	02 1M/1F	04 4M	05 1M/4F	04 3M/1F	02 1M/1F	-	25	40	-	50

Table 9 : Student intake and attrition in the M.Tech. programme in last five years

Table 10: Students intake and attrition M. Tech degree programme

		М.	Tech.	
Batch	Students admitted		Droj	pped
	Μ	M F		F
	No.	No.	No.	No.
2018-19	01	01	00	00
2019-20	04	00	01	00
2020-21	01	04	00	02
2021-22	03	01	00	00
2022-23	01	01	00	01

Table 11 : Students Pass out (M. Tech. degree programme)

Sr. No.	Year	No. of M. Tech. Students
1	2018-19	02
2	2019-20	01
3	2020-21	01
4	2021-22	04
5	2022-23	03

6.4.9 ICT Application in Curricula Delivery

The PG classrooms are equipped with LCD projectors for power point presentations. Following ICT tools are used in PG classrooms and laboratories for teaching and conducting practical of PG courses.

- 1. Desktop and Laptop
- 3. Interactive White Board
- 5. Simple-Projector
- 7. Digital Camera
- 9. Wireless Microphone for Convenience

- 2. Document Camera/Visualize
- 4. Interactive Projector- Kayon
- 6. Speakers
- 8. Printer
- 10. Digital Podium

Certificate

I, Dr. U. M. Khodke, **Dean**, College of Agricultural Engineering & Technology, Parham hereby certify that the information contained in Section 6.4 (Section 6.4.1 to 6.4.9) are furnished as per the records available in the college and degree awarding University.

(U.M. Khodke) Dean

Date:

Seal:

Master of Technology (Agricultural Engineering) in 2) Soil and Water Conservation Engineering

6.4 Self Study Report of PG programmes

6.4.1 Brief history of PG programmes

The post-graduate programme leading to M.Tech. degree in Soil and Water Conservation Engineering was started in the year 1998 (MCAER order no. MCAER/EDU/CR-884/KA-2/603/96 dated 07 March 1996) with an intake capacity of two students.

The new and restructured PG programmes in Agricultural Engineering and Technology recommended by National Core Group of ICAR, New Delhi is being implemented from 2009-10 onwards. Since few academic staffs were deputed for higher studies, the intake capacity of the M. Tech. programme was reduced to two students in 2018-19 and it was assumed as 4 students per disciplines afterwards.

The existing contents of M. Tech syllabus was examined critically, restructured and updated keeping in view the latest developments in the subject areas.

Mission and Goals, Mandate of the College, Mission Statement, Goals and Objectives are same as given in department of Irrigation & Drainage Engineering.

Programme	Name of the Disciplines	Year of Establishment	Duration
M. Tech.	Soil and Water Conservation	1998-1999	2 Year
(Agril. Engg.)	Engineering		(4 Sem.)

Table 1: M.Tech. (Agril. Engg.) degree programmes offered with duration

Salient features of organization of course contents and credit requirements:

<u>Code Numbers, Course Contents</u>, Major courses, Minor courses, Supporting courses and Non-Credit Compulsory courses are same as given in department of Irrigation & Drainage Engineering.

6.4.2 Faculty Strength

For smooth conduct of PG degree programme, in addition to the faculty members at College of Agricultural Engineering and Technology, services of faculties of Agricultural Engineering working under various establishments in the campus such as Agriculture Colleges and research stations of the University are being engaged for course work and research work.

For fulfilling the requirements of supporting special and non credit compulsory courses of PG programme, common arrangements are made at the University level.

Sr. No	Post	Sanc. post	Filled Post	Vacant	Faculty Recommen ded by the ICAR regulatory body	Devia tion (%)	Remarks
01.	Professor	0	0	0	1	100	Services of Teaching
02.	Associate	1	1	0	2	50	Staff from Agriculture,
	Professor						the research project &
03.	Assistant	2	2	0	3	33	dept. of Agriculture
	Professor						Engineering COA,
							VNMKV, Parbhani &
							BSCT are spared and
							deputed to support the
							teaching and research
							activities at CAET.

 Table 2 : Department wise faculty position of Department of Water Conservation

 Engineering

Major / Minor / Dual / Guest / Ad-hoc Faculty for Different Departments:

Sr. No.	Major Faculty	Minor Faculty	Dual Faculty	Guest/ Ad-hoc Faculty	Other University Staff
01.	Prof. B.W.	Dr. H.W. Awari	Dr. M.S.	-	(1) Prof. Bharti (Stat),
	Bhuibhar		Pendke		(2) Dr. S.S. Kadam
02.	Dr. A.S. Kadale	Dr. S.B. Jadhav	Prof. S.N.	-	(Library Science),
			Pawar		(3) Dr. P.S. Kapse
03.	Dr. A.M.	Dr. V.K. Ingle	-	-	(Ext. Education),
	Kamble				(4) Dr. Suresh Waikar
04.	Dr. S.D. Payal	Prof. V.M.	-	-	(Soil Science),
		Bhosle			(5) Dr. D.S. Perke
05.	Dr. M.R. More	Dr. R.V. Shinde	-	-	(Economics)

6.4.3 Technical and supporting staff

The following posts of technical and supporting staff for field experimentation/ laboratory work/ workshop / farm work are in place at this college.

S. No.	Name of Post	Sanctioned post	Filled post	Vacant post	Faculty recommended by the ICAR regulatory body	Deviation (%)
01.	PA/Steno	-	-	-	01	100
02.	Clerk	-	-	-	01	100
03.	Lab Assistant/Sub- overseer (On deputation, 2018-19 to 2021-22)	01	00	01	02	50
04.	Peon	-	-	-	01	100

 Table 3 : Technical and supporting staff of Department of Soil and Water Conservation

 Engineering

6.4.4 Classrooms and Laboratories

Department of Soil and Water Conservation Engineering has well developed PG classroom and well-equipped laboratories. The theory classes are conducted with the help of audio-visual aids like K-Yan, LCD projector, etc.

Practical are conducted in laboratories of the department, Field laboratories such as greenhouse structures, run off plot, various surrounding watershed and farms of the research stations are being utilised for the demonstration of practical of PG courses. Computer laboratory, CAD-CAM laboratory and language laboratory are established in the college with software facilities like ARIS / LAN, A to Z Watershed software, Pro-E, ANSYS, MATLAB and Simulink, GIS and Design Expert and utilised for teaching and research work. Advanced equipments like total survey station, pump test rig, digital hardness test rig, metal composition testing machine, CNC machine, Leaf area meter, water quality kit, Laser leveller, Water activity meter, Low humidity low temperature cabinate dryer, Universal testing machine and compression testing machine are available for practical and demonstration in the departments.

PG Classrooms

Separate classrooms for PG programme are established in the Dept. of Soil and Water Conservation Engineering.

Laboratories

Table 4 : Details of Laboratory	/ Dep	partment of Se	oil and	Water	Conservation	Eng	gineering
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S.	Nome of the Laboratory	Length	Breadth	Area	Seating Capacity
No.	Name of the Laboratory	(m)	(m)	(sq.m)	(No. of
					Student)
1	Soil Mechanics Lab.	10.60	11.15	118	40
2	Surveying and hydrology Lab.	14.05	11.05	158	40
3	Soil water Conservation	100	100	10000	40
	Engineering Lab.				
4	Remote Sensing and GIS Lab.	06	05	30	05

Table 5 : Details of department wise list of equipments/instruments/implements

Sr.	Name of Equipment
No.	
	Department of Soil and Water Conservation Engineering
1	Bulk density apparatus-core cutters
2	Double ring infiltrometers
3	Falling head permeability test apparatus
4	Sieves shaker for particle size analysis
5	Different evaporation pans
6	Total survey station
7	Flow measuring devices-H flume, parshall flume
8	Flow velocity measurement instruments-current meters
9	Stage level recorders

6.4.5 Conduct of Practical and Hands on Training:

Conduct of Practical

The practical and hands on training are conducted in the laboratories of respective department and field allocated to concern department.

The practical are conducted as per the lesson plan by using the requisite instruments and facilities available in the respective laboratories, on farm, farm ponds, green house and shade net structures. The techniques are demonstrated to the students and performed actual experiments are performed.

Hands on Training

The students are deputed to different organizations such as NGO's, Research Organizations for advanced training for the period of three weeks for M. Tech. programmed in order to get exposure. The training constitutes practical activities such as production process, quality testing, measurements and the research and developmental activities to promote their innovative ideas and skills. Students acquire skills through hands on practice. Training helps the students to minimize the gap between theoretical knowledge and practical applications. The students also get an idea for planning and execution of their PG research work.

6.4.6 Supervision of students in M. Tech. programme

One supervisor (guide) is allotted to every PG Student for supervision of research work. The supervisor monitors academic and research activities of students through Student Advisory Committee.

 Table 6: Details of students allotted for supervision of research work in the M.Tech.

 degree programme.

S.	Year	No of
No.		Students
1	2018-19	02
2	2019-20	05
3	2020-21	04
4	2021-22	05
5	2022-23	01

 Table 7 : Details of students allotted for supervision of research work in the M.Tech.

 degree programme (Department of SWCE)

S. No.	Year	Name of Faculty	No of
			Students
1	2018-19	Prof. B.W. Bhuibhar	01
		Dr. S.D. Payal	01
2	2019-20	Dr. S.D. Payal	01
		Prof. B.W. Bhuibhar	01
		Dr. A.M. Kamble	01
		Dr. M.S. Pendke	01
		Dr. M.R. More	01
3	2020-21	Dr. M.R. More	01
		Dr. S.D. Payal	01
		Dr. M.S. Pendke	01
		Prof. B.W. Bhuibhar	01
4	2021-22	Dr. M.S. Pendke	01
		Dr. S.D. Payal	01
		Dr. M.R. More	01
		Prof. B.W. Bhuibhar	02
5	2022-23	Dr. M.R. More	01

6.4.7 Feedback of stakeholders (Students and parents, industries, etc.)

College has well defined feedback mechanism of different stakeholders i.e. students, parents and industries. Real feedback of the students was also collected frequently from the suggestion and complaint box placed near Associate Dean and Principal office. Regular students-parents meeting with college authorities were organized to take feedback from the parents. Employers are encouraged to give their feedback during monthly meetings while farmers suggestions and feedback were taken directly through regular inward procedure. College authority has acted as per rules on the issues raised in the feedback of stakeholders.

Student's Feedback Mechanism

- The students are encouraged to give the FEEDBACK in the prescribed form
- Prescribed FEEDBACK form is provided at Education section of the college for registered students and pass out students can download the feedback form from the College Website. Student are submitting the FEEDBACK form to the education section or they drop the feedback form in the suggestion box kept in the office of Associate Dean and Principal.
- Filling the feedback form is voluntary.
- The feedback information received is used to improve the overall standards in the college in developing both academic and non-academic facilities.
- In addition the Advisors / ADP conducts separate interaction secession's to get students feedback overlay / in writing through feedback form.
- The information provided by the students in the feedback form is kept confidential.

Redressal Mechanism

- The feedback forms are scrutinized and specific suggestions are discussed in the monthly meeting. The suggestions and feedbacks are addressed by the concerned college committee.
- Feedbacks are also discussed in the Board of Study and Academic staff meeting at college level.
- If required, the feedbacks are also will be taken up by in the Faculty Meeting to formulate policies.

Students' Feedback

			Email Id	1 Seminars	~	, 1		
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STUDENTS FEEDBA	ACK FROM			6 Multidisciplinary Projects/ Live Projects 7 Industrial Attachment and Experiential	~			
(For Registered S	tudent)			B Placement Cell Activities	·	~		
Degree Program: B. Tech. /M. Tech. /Ph.D. (Agricult	ural Enginee	ting)	mineering	9 NSS/NCC Activities		/		
Name of the Student : Mane Akash Muny	abhau	Regist	ration No. : 2022 AE OU	1 College Website	~			
Year of Admission : 2022-		Semes	iter: TII rd	Girls Common Room		~		
This questionnaire is intended to collect i	nformation	relating	to your satisfaction	(only for female students) 4 Drinking water facility		~	_	
towards the curriculum, learning and evaluation. T	he informati	ion provi	ided by you will be	5 Washroom Cleanliness and maintenance 6 Greenery in the college campus		~	~	
kept confidential and will be used as important for	edback for	quality i	improvement of the	7 Cleanliness and maintenance of college		~		
Sr. How do you rate the following	Excellen	Very	GoodSatisfactory	Any alter CHOP PETIONS -				
Academic Resources (Faculty)	Catterier	Good		The hardson trainings is presided	and	the	Bif the	r_,
1 Mentoring and Motivating Students for	V	Γ	- 2	are industrial exposure is also the	elr			
2 Content of Syllabi of the Courses	•	~						
3 Extent of Syllabi covered in the Class 4 Delivery of Content in the Class	5							
5 Regularity and Sincerity	N			Place: Pock I h		Signatu	Amane_	udent
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Innovative Thinking		1						
11 Curricular Activities		1						
12 Over all Learning Experience with the faculty	~							
Sr. How do you rate the following	E	Very	CoodSatisfaste					
	F.xcellen	Good	Good Satisfactory					
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ech. & Ph.D. (Agricultural Engineering) Parble COLLEGE OF AGRICULTURAL ENGIN VASANTRAO NAIK MARATHWAD PARBHANI - 431 4 e. No: 02452 - 223230 STUDENTS FFEDBAH (For Registered Ski ec Program: B. Tech. /M. Tech. /Ph.D. (Agricultur pline in case of PG Degree : of Admission : 2031 - 2.3 This questionnaire is intended to collect in dis the curriculum. kanning and evaluation. If dis the curriculum. karning and evaluation. If dis the curriculum and the class dis the curriculum and the class dis the curriculum and the curriculum and l'Attra- Curriculum Activities discuricular Activities discuricular Activities	hani SEERING A KRISHI OZ (MS) Fma (K FROM Germation (CK FROM Germation	& TEC VIDV. al. adpeaters Regitive Sense relating una providential guality Very Good	Email Id: THOLOGY VPEETH. CO actpbo@gmail.com startion No.: 2.021AI inter: Tr * 500 to your satisfaction ided by you will be improvement of the f GoodSatisfactory GoodSatisfactory	1 Seminars 2 Special Lectures / Guest Lectures/Virtual Lectures 3 Handson Training/ In-plant Training for Academic Enhancement 4 Class Presentations/ Projects/ Workbooks 5 Use of Teaching Aids and ICT in the Class to Facilitate Teaching 6 Multidisciplinary Projects/ Live Projects 7 Industrial Attachment and Experiential Learning Program 8 Placement Cell Activities 10% SS / NCC Activities Infrastructure 3 Girls Common Room (only for female students). 4 Drinking water facility S 5 Washnoom Cleanlings and maintenance 6 6 Greenery in the college campus 7 7 Iclaniness and maintenance of college premises		Sigr	hature o ne: Anilie No:	file Student Jang Jang Jang Jang Jang Jang Jang Jang

Alumina Feedback

Phor	COLLEGE OF AGRICULTURAL ENG VASANTRAO NAIK MARATHW PARBHANI – ne No: 02452 -223230	INEERING /ADA KRISI 431 402 (MS	& TECHN HI VIDYAF) Email: ac	OLOGY PEETH, dpcaetpbn	@gmail.com	Pho) one l	COLLEGE OF AGRICULTURAL ENG VASANTRAO NAIK MARATHW PARBHANI – - No: 02452 -223230	INEERING (ADA KRISH 431 402 (MS)	& TECHNO II VIDYAP Email: ac	OLOGY PEETH, lpcaetpbn	@gmail.com
Deg Disc Nam Year Pres You	ALL/MNI FFEI ree Program Completed : B. Tech. / M. Tech ipline in case of PG Degree : Soil @ e of the Student : Registration No. : Bhe of Admission : 2017 - [9 ent Status: Job / Occupation : put Status : Optimion About College: Tick the appropri-	DBACK FRO Ph.D. (Ag ind wat endekaz Year Ng Ph- printe one: (V	on ricultural F fes co s Moti of Degree D in	ingineerin N Ser U Nam Completic Swce	g) rativn En Tukaram (2019	Deg Dis Nar Yea Pre: Yo t	gree scipl me c ar of esent	ALUMNI FFED Program Completed : B. Tech. / M. Tech. ine in case of PG Degree : 5 of 1 & Mo of the Student : Registration No. : Mon Admission : 2015 I Status: Job / Occupation : Pursui A Dinion About College: Tick the approxi-	BACK FRO Ph.D. (Agr Uer Con E Ram Year Year Year (V.	M icultural E Servol Manik of Degree (ingineerin ১৫০ চি ৫৭০ Completin	g) 99. 2015 AE 09 2015 AE 09
Sr. No	How would you rate the following	Excellent	Very Good	Good	Satisfactory	Sr. No		How would you rate the following	Excellent	Very Good	Good	Satisfactory
1	How do you rate the courses that you learnt in the college in relation to your current job / occupation		V			1		How do you rate the courses that you learnt in the college in relation to your current job / occupation	V			
2	Admission Process	1				2	-	Admission Process	V			
3	Faculty ·	V				. 3		Faculty	V			
4	Educational Resources		V			4		Educational Resources		\checkmark		
5	Library Facilities	V				5		Library Facilities	~			
6	Infrastructure and Lab Facilities		V			6		Infrastructure and Lab Facilities		~		
7	Examination Process		V			7		Examination Process	~			
8	Sports Facility	V				8		Sports Facility		V		
9	Overall Rating	V				9		Overall Rating	~			
Plea Place Date	eprovide your valuable suggestions for im lequites	ellq.t	Sig Sig Nai Con	nature mature Montact No:	departi D- Pgst Juny . tiram 6he 585 0537	Ples Plac Dat	ce:	provide your valuable suggestions for im	provement o	the institution of the state of	nature ne: Mo ntact No:	Tre R.M. 9822530!

6.4.8. Student intake and attrition in the programme for last five years

Table 8 : Student intake and	d attrition in the M.Tech	. programme in last	five years
------------------------------	---------------------------	---------------------	------------

Name of the	Students admitted					Attrition (%)				
Degree Programme M.Tech	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23	2018- 19	2019 -20	2020 -21	2021 -22	2022 -23
Soil and	02	05	04	05	02	-	-	-	-	50
Water	2M	2M/3F	3M/1F	2M/3F	2M					
Conservation										
Engineering										

Table 9: Students intake and attrition M. Tech degree programme

		M.	Tech.			
Batch	Students admitted		Dropped			
	Μ	F	Μ	F		
	No.	No.	No.	No.		
2018-19	02	00	00	00		
2019-20	02	03	00	00		
2020-21	03	01	00	00		
2021-22	02	03	00	00		
2022-23	02	00	01	00		

Sr. No.	Year	No. of M. Tech. Students
1	2018-19	02
2	2019-20	03
3	2020-21	02
4	2021-22	04
5	2022-23	05

Table 10 : Students Pass out (M. Tech. degree programme)

6.4.9 ICT Application in Curricula Delivery

The PG classrooms are equipped with LCD projectors for power point presentations. Following ICT tools are used in PG classrooms and laboratories for teaching and conducting practical of PG courses.

- 1. Desktop and Laptop
- 3. Interactive White Board
- 5. Simple-Projector
- 7. Digital Camera
- 9. Wireless Microphone for Convenience

- 2. Document Camera/Visualize
- 4. Interactive Projector- Kayon
- 6. Speakers
- 8. Printer
- 10. Digital Podium

Certificate

I, Dr. U. M. Khodke, **Dean**, College of Agricultural Engineering & Technology, Parham hereby certify that the information contained in Section 6.4 (Section 6.4.1 to 6.4.9) are furnished as per the records available in the college and degree awarding University.

Ima

(U.M. Khodke) Dean

Date:

Seal:

Master of Technology (Agricultural Engineering) in 3) Processing and Food Engineering

6.4 Self Study Report of PG programmes

6.4.1 Brief history of PG programmes

The post-graduate programme leading to M.Tech. degree in Processing and Food Engineering was started in 2002.

The new and restructured PG programmes in Agricultural Engineering and Technology recommended by National Core Group of ICAR, New Delhi is being implemented from 2009-10 onwards. Since few academic staff were deputed for higher studies, the intake capacity of the M. Tech. programme was reduced to two students in each discipline in 2018-19 and it was resumed as 4 students per discipline afterwards.

The existing contents of M. Tech syllabuswas examined critically, restructured, and updated keeping in view the latest developments in the subject areas.

Mission and Goals, Mandate of the College, Mission Statement, Goals and Objectives are same as given in department of Irrigation & Drainage Engineering.

Programme	Name of the Disciplines	Year of	Duration
		Establishment	
M. Tech.	Processing and Food Engineering	2002-2003	2 Year
(Agril. Engg.)			(4 Sem.)

 Table 1: M.Tech. (Agril. Engg.) degree programmes offered with duration

Salient features of organization of course contents and credit requirements:

<u>Code Numbers, Course Contents</u>, Major courses, Minor courses, Supporting courses and Non-Credit Compulsory courses are same as given in department of Irrigation & Drainage Engineering.

6.4.2 Faculty Strength

For smooth conduct of PG degree programme, in addition to the faculty members at College of Agricultural Engineering and Technology, services of faculties of Agricultural Engineering working under various establishments in the campus such as Agriculture Colleges and research stations of the University are being engaged for course work and research work. For fulfilling the requirements of supporting special and non credit compulsory courses of PG programme, common arrangements are made at the University level.

Sr. No	Post	Sanc. post	Filled Post	Vacant	Faculty Recommen ded by the ICAR regulatory body	Devia tion (%)	Remarks
3							Services of Teaching Staff
	Profe	0	0	0	1	100	from Agriculture, the
	ssor						research project such as
	Asso	1	1	0	2	50	AICRP on UAE, Dept. of
	ciate						REE & BSCT are spared and
	Profe						deputed to support the
	ssor						teaching and research
	Assis	2	2	0	3	33	activities at CAET.
	tant						
	Profe						
	ssor						

 Table 2 : Faculty position of Department of Processing and Food Engineering

Major / Minor / Dual / Guest / Adhoc Faculty for Different Departments:

Sr. No.	Major Faculty	Minor Faculty	Dual Faculty	Guest/ Adhoc Faculty	Other University Staff
Proc	essing and Food F	(1) Prof. Bharti (Stat),			
01.	Dr. S.U.	Dr. R.T.	Dr. R.V.	-	(2) Dr. S.S. Kadam
	Khodke	Ramteke	Jayabhaye		(Library Science),
02.	Dr. P.G. More	Dr. S.N. Solanki		-	(3) Dr. P.S. Kapse
03.	Dr. S.R. Garud	Prof. V.M.		-	(Ext. Education),
		Bhosle			(4) Dr. Suresh Waikar
04.	Prof. B.P.	Dr. R.V. Shinde		-	(Soil Science),
	Sawant				(5) Dr. D.S. Perke
					(Economics)

6.4.3 Technical and supporting staff

The following posts of technical and supporting staff for field experimentation/

laboratory work/ workshop / farm work are in place at this college.

Engineering

S. No.	Name of Post	Sanctioned post	Filled post	Vacant post	Faculty recommended by the ICAR regulatory body	Deviation (%)
1	PA/Steno	-	-	-	01	100
2	Clerk	-	-	-	01	100
3	Lab Assistant	01	01	-	02	50
4	Lab Attendant	-	-	-	-	-
5	Peon	-	-	-	01	100

 Table 3 : Technical and supporting staff of Department of Processing and Food

6.4.4 Classrooms and Laboratories

Department of Processing & Food Engineering has well developed PG classroom and well-equipped laboratories. The theory classes are conducted with the help of audio visual aids like K-Yan, LCD projector, etc.

Practical are conducted in laboratories of the department, workshop and ELP unit. Field laboratories such as solar energy park and farms of the research stations are being utilised for the demonstration of practical of PG courses. Computer laboratory, CAD-CAM laboratory and language laboratory are established in the college with software facilities like ARIS / LAN, Pro-E, ANSYS, MATLAB and Simulink, GIS and Design Expert and utilised for teaching and research work. Advanced equipments like digital hardness test rig, water quality kit, Texture Analyser, Bakery Unit, Hunter Colour Lab Meter, Water activity meter, Extruder, Electrically operated roaster, LPG operated puffing cum popping machine, Distillation Unit, Low humidity low temperature cabinet dryer are available for practical and demonstration in the respective departments.

PG Classrooms

Separate classrooms for PG programme are established in the Dept. of Processing & Food Engineering.

Laboratories

Table 4 · Details of La	boratory Denartme	nt of Processing g	and Food Engineerin	σ
Table 7 . Details of La	iboratory Departine	nt of f focessing a	ina roou Engineerm	Š.

S.	Name of the Laboratory	Length	Breadth	Area	Seating Capacity
No.	Ivalle of the Laboratory	(m)	(m)	(sq.m)	(No. of
					Student)
1	Crop Processing Engg. Lab.	11.28	14.32	162	40
2	Food Engineering Lab.	8.7	7.4	64	10
3	Quality control (ELP) Lab.	12.20	10.80	132	05

Table 5 : Details of department wise list of equipments/instruments/implements

Sr.	Name of Equipment
No.	
	Department of Processing and Food Engineering
1	Texture analyzer
2	Apparatus for angle of repose, anemometer,
3	Apparatus for measurement of properties of milk, cream separator
4	Autoclave
5	Mini Dal Mil
6	Refrigeration and freezing tutor
7	Parallel and counter heat exchanger
8	Soxhlet apparatus, Kzeldol apparatus
9	Infrared Moisture meter
10	Flour Mill
11	Mixer cum pulper
12	Models of handling equipments and Boilers
13	Vibration and drop tester, Box compression tester,
14	Spray dryer
15	Orbital shaking incubator
16	Horizontal laminar air flow cabinet
17	Bakery Unit
18	Water activity meter
19	Hunter Lab colourimeter
20	Extruder
21	Multi grain roster cum puffer

6.4.5 Conduct of Practical and Hands on Training:

Conduct of Practical

The practical and hands on training are conducted in the laboratories of respective departments and field allocated to concern department.

The practical are conducted as per the lesson plan by using the requisite instruments and facilities available in the respective laboratories, on farm, workshops, ELP unit, solar energy park. The techniques are demonstrated to the students and actual experiments are performed.

Hands on Training

The students are deputed to different industries such as Food Processing, NGO's, Research Organizations for advanced training for the period of three weeks for M. Tech. programmed to get exposure. The training constitutes practical activities such as production process, quality testing, measurements and research and developmental activities to promote their innovative ideas and skills. Students acquire skills through hands-on practice. The students are also exposed to marketing and management activities of various enterprises. Training helps the students to minimize the gap between theoretical knowledge and practical applications. The students also get an idea for planning and execution of their PG research work.



M.Tech. students performing practical on texture analyzer



M.Tech. Student operating spray dryer



M.Tech. student presenting poster in International Symposium on Engineering Interventions for Making Millets a Global Food at UAS, Raichur

6.4.6 Supervision of students in M. Tech. programme

One supervisor (guide) is allotted to every PG Student for supervision of research work. The supervisor monitors academic and research activities of students through Student Advisory Committee.

S.	Year	No of
No.		Students
1	2018-19	02
2	2019-20	03
3	2020-21	04
4	2021-22	03
5	2022-23	01

 Table 6 : Details of students allotted for supervision of research work in the M.Tech.

 degree programme.

 Table 7 : Details of students allotted for supervision of research work in the M.Tech.

 degree programme (Department of PFE)

S. No.	Year	Name of Faculty	No of
			Students
1	2018-19		
2	2019-20	Dr. R.V. Jayebhaye	01
		Dr. S.U. Khodke	01
		Dr. S.R. Garud	01
3	2020-21	Dr. P.G. More	01
		Dr. S.U. Khodke	01
		Dr. S.R. Garud	01
		Dr. R.V. Jayebhaye	01
4	2021-22	Dr. R.V. Jayebhaye	01
		Dr. S.U. Khodke	01
		Dr. P.G. More	01
5	2022-23	Dr. R.V. Jayebhaye	01

6.4.7 Feedback of stakeholders (Students and parents, industries, etc.)

College has well defined feedback mechanism of different stakeholders i.e. students, parents and industries. Real feedback of the students was also collected frequently from the suggestion and complaint box placed near Associate Dean and Principal office. Regular students-parents meeting with college authorities were organized to take feedback from the parents. Employers are encouraged to give their feedback during monthly meetings while farmers suggestions and feedback were taken directly through regular inward procedure. College authority has acted as per rules on the issues raised in the feedback of stakeholders.

Student's Feedback Mechanism:

- The students are encouraged to give the FEEDBACK in the prescribed form
- Prescribed FEEDBACK form is provided at Education section of the college for registered students and pass out students can download the feedback form from the College Website. Student are submitting the FEEDBACK form to the education section or they drop the feedback form in the suggestion box kept in the office of Associate Dean and Principal.
- Filling the feedback form is voluntary.
- The feedback information received is used to improve the overall standards in the college in developing both academic and non-academic facilities.
- In addition the Advisors / ADP conducts separate interaction secession's to get students feedback overlay / in writing through feedback form.
- The information provided by the students in the feedback form is kept confidential.

Redressal Mechanism

- The feedback forms are scrutinized and specific suggestions are discussed in the monthly meeting. The suggestions and feedbacks are addressed by the concerned college committee.
- Feedbacks are also discussed in the Board of Study and Academic staff meeting at college level.
- If required, the feedbacks are also will be taken up by in the Faculty Meeting to formulate policies.

Students' Feedback

	COLLEGE OF AGRICULTURAL ENGI VASANTRAO NAIK MARATHWAD PARBHANI - 431 4	NEERING A KRISHI 102 (MS)	& TEC VIDYA	Em HNOI PEET	ail Id: OGY 🚱 II,			1 2
Phone	e No: 02452 -223230	Emai	l: adpca	tpbn@	gmail.com			3
								4
	STUDENTS FEEDBA	CK FROM						5
	(For Registered St	udent)						6
Degre	e Program: M.Tech. (Agricultural Engineering	g)						7
Disci	pline in case of PG Degree : Ptocessing	and	Food	E	ngineeel	21		8
Name	of the Student : Rachana P. Jac	hav.	Regis	ration	No.: 2021/	AE/12M		9 Inf
Year	of Admission : 2021		Seme	ter:	IV.			1
	This sector is to be a later when the							2
Low -	this questionnane is intended to collect if	normation 1	relating	to you	r satisfaction			3
lowar	us the curriculum, learning and evaluation. If	ne informati	on prov	ided b	y you will be			4
kept (confidential and will be used as important fe	edback for	quality	improv	ement of the			5
progra	amme of studies / institution.			-				7
Sr	How do you rate the following	Excellen	Good	Good	Satisfactory			1
A	rademic Resources (Faculty)	-	GUJU	-				A
	Mentoring and Motivating Students for	1.1		T				Anyou
	Academic Growth and Development	×						0.41
	Extent of Syllabi or the Courses	i	V	-				15.01
4	Delivery of Content in the Class		2					.ALLS
5	Regularity and Sincerity	1		-				
7	Linking Theory with Examples and Practices	12	-	V				
8	Accessibility for Interactions		~					Place:
9	Use of Teaching Aids and ICT in the Class to Facilitate Teaching			V				
10	Encouragement for Out of the Box and	-						
10	Innovative Thinking	~	-	-			1	
11	Encouragement for Co-Curricular and Extra- Curricular Activities		~					
12	Over all Learning Experience with the faculty	~						
Sr	How do you rate the following	Excellent	Very Good	Good	Satisfactory			
							120	
	W: Accreditation Report 2018-2023							VNMK
VNM					Page 20		100	
VNM					1417		2	

gricultural Engineering) Parbhani

۸	cademic Activities					1
1	Seminars	1	12	1		-
2	Special Lectures /Guest Lectures/Virtual Lectures			~		
3	Handson Training/ In-plant Training for Academic Enhancement			~		
4	Class Presentations/ Projects/ Workbooks	V				
5	Use of Teaching Aids and ICT in the Class to Facilitate Teaching		~			
6	Multidisciplinary Projects/ Live Projects	~				
7	Industrial Attachment and Experiential Learning Program			~		
8	Placement Cell Activities	1	-		~	
9	NSS / NCC Activities	~				
In	frastructural Facilities					
1	College Website			~		
2	Class room Infrastructure	~				
3	Girls Common Room (only for female students)				~	
4	Drinking water facility	~				
5	Washroom Cleanliness and maintenance		~]
6	Greenery in the college campus	~				1
7	Cleanliness and maintenance of college premises	V				

cernors: let_implementing__tequlat_industry_ d_workshops__fostering_stronger_____ .lth_companies____fort_internships_2 provide lized career counseling.

bhani .

Geelhar Signature of the Student Name: Jadhav R.P. Mobile No: 9 30389 8019.

Page 21

0	COLLEGE OF AGRICULTUR VASANTRAO NAIK MARA PARBIIA	Email Id: AL ENGINEERING & TECHNOLOGY THWADA KRISHI VIDYAPEETII, NI – 431 402 (MS)	٢
Phone	No: 02452 -223230	Email: adpeaetpbn@gmail.	com

STUDENTS FEEDBACK FROM

(For Registered Student) Degree Program: B.Tech. /M.Tech. /Ph.D. (Agricultural Engineering) Discipline in case of PG Degree : Recessing & Food Engineering . Registration No. : 20219c/m14. Name of the Student : Paulavi Ramrao Vai dyg . Semester: 17th Year of Admission : 2021 .

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the mme of studies / institution

Sr	How do you rate the following	Excellent	Very Good	Good	Satisfactor
Ac	ademic Resources (Faculty)			_	
1	Mentoring and Motivating Students for Academic Growth and Development		~	1_	
2	Content of Syllabi of the Courses	V		-	
3	Extent of Syllabi covered in the Class	5		-	
4	Delivery of Content in the Class	~	1-	-	
5	Regularity and Sincerity	-	-	-	
6	Subject Expertise	-	-	-	
7	Linking Theory with Examples and Practices	-	-	1	
8	Accessibility for Interactions			r'	-
9	Use of Teaching Aids and ICT in the Class to Facilitate Teaching			r	
10	Encouragement for Out of the Box and Innovative Thinking		~	_	
11	Encouragement for Co-Curricular and Extra- Curricular Activities		V	-	
12	Over all Learning Experience with the faculty	V .			
Sr.	How do you rate the following	Excellent	Very Good	Good	Satisfactory

 3 Handson Training for Academic Enhancement

 4 Class Presentations? Projects/ Workbooks

 5 Use of Teaching Aids and ICT in the Class to Facilitate Teaching

 6 Multidisciplinary Projects/ Live Projects

 1 Industrial Attachment and Experiential Learning Program

 8 Placement Cell Activities

 10 NSS / NCC Activities

 10 College Website

 2 Class room Infrastructure (only for female students)

 4 Diriking water facility

 5 Washroom Cleanlines and maintenance

 6 Greenery in the college campas

 7 Cleanlines and maintenance of college

 7 Direstes

premises Any other SUGGESTIONS :

provide career specilised career counselling for bettoment of college students

Place: Porbhani.

Signature of the Student Name: Powavi Rommas vaidia. Mobile No: 7020849704.

editation Report 2018-2023



Academic Activities 1 Seminars 2 Special Lectures /Guest Lectures/Virtual 2 Lectures Handson Training/ In-plant Training for 3 3 Handson Training/In-plant Training for Academic Enhancement 4 Class Presentations/ Projects/ Workbooks 5 Bee of Teaching Aids and ICT in the Class to Eacilitate Teaching 6 Multidisciplinary Projects/ Live Projects 7 Industrial Attachment and Experiential Industrial Attachment and Experiential Learning Program 8 Placement Cell Activities 101 Infrastructural Tacilities 1 College Website 2 Class room Infrastructure 3 Girls Common Room 1 Optional Students) 4 Drinking water facility 5 Washroom Cleanliness and maintenance 6 Greenery in the college campus 7 Cleanliness and maintenance of college premises V V 22 ----5 V 7 premises

Any other SUGGESTIONS :

Organize worksheps nebled to inductio building cluser, connection with companio tra internship and offering specialized carrier counseling to help student propose for Jab

Place: Pabhoni

Signature of the Student Name: S.P. Pohi

Mobile No: 915+370024

Page 21

M.Tech. (Agricultural Engineering) Parbhani

COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY VASANTRAO NAIK MARATIWADA KRISHI VIDYAPEETII, PARBHANI - 431 402 (MS)

Email: adpcactpbn@gmail.com Phone No: 02452 -223230

STUDENTS FEEDBACK FROM

(For Registered Student)

Degree Program: M.Tech. (Agricultural Engineering) Discipline in case of PG Degree : Processing ord foed Engineering Name of the Student : Pohl Sogra Devidee Registration ? Registration No. : 2022 AFloz M Year of Admission : 2022 Semester:

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the programme of studies / institution.

Sr.	How do you rate the following	Excellent	Very Good	Good	Satisfactor
Ac	ademic Resources (Faculty)				
1	Mentoring and Motivating Students for Academic Growth and Development	~			\times
2	Content of Syllabi of the Courses	V	1		w.
3	Extent of Syllabi covered in the Class	~			UX.
4	Delivery of Content in the Class	~			
5	Regularity and Sincerity		~		
6	Subject Expertise				
7	Linking Theory with Examples and Practices				V
8	Accessibility for Interactions				
9	Use of Teaching Aids and ICT in the Class to Facilitate Teaching	~			
10	Encouragement for Out of the Box and Innovative Thinking		-		
11	Encouragement for Co-Curricular and Extra- Curricular Activities			~	
12	Over all Learning Experience with the faculty	~			
Sr.	How do you rate the following	Excellent	Very Good	Good	Satisfactor

VNMKV: Accreditation Report 2018-2023

Page 20

VNMKV: Accreditation Report 2018-2023

Alumni Feedback Form

M.Tech. (Agricultural Engineering) Parbhani



COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH,



PARBHANI - 431 402 (MS)

Phone No: 02452 -223230

Email: adpcaetpbn@gmail.com

ALUMNI FEEDBACK FROM

Degree Program Completed : M.Tech. (Agricultural Engineering)

Discipline in case of PG Degree: Processing and food Engineering

Name of the Student : Registration No. : 2016 AE | 06 14

Year of Admission : 2011-17

Year of Degree Completion : 2018-19

Present Status: Job / Occupation : Ph. D

Your Opinion About College: Tick the appropriate one: $(\sqrt{)}$

Sr. No	How would you rate the following	Excellent	Very Good	Good	Satisfactory
1	How do you rate the courses that you learnt in the college in relation to your current job / occupation		\checkmark		
2	Admission Process			V	
3	Faculty	\checkmark			
4	Educational Resources		V		
5	Library Facilities	V			
6	Infrastructure and Lab Facilities		V		
7	Examination Process	~			
8	Sports Facility		~		
9	Overall Rating		V		

Please provide your valuable suggestions for improvement of the institute-

Careez counselling, Advance Software needful campus interview most important and students need that

Place: Pathani

Date: 12/01/2024

Signature Handibag Ashwing Name: Contact No: 7054936525



Please provide your valuable suggestions for improvement of the institute-

Career counselling. Campus intreview. Advance.

...education resources such as new software for researchwork. Place: parbhani

Date: 12/01/2024.

Signature Suber

Name: Shalala. S. Kalamny nkor Contact No: 8208875709

PARTENT FEEDBACK

COLLEGE OF AGRICULTUR VASANTRAO NAIK MAR PARBHA	AL ENGINEERING & TECHNOLOGY ATHWADA KRISHI VIDYAPEETH, NI – 431 402 (MS)
Phone No: 02452 -223230	Email: adpcaetpbn@gmail.com
PARENT'S F	FEEDBACK FORM
 Name of the parent and relation w Name of students with Reg. No. D Address of the parent:	rith student: <u>Ambadas. D. khiste</u> <u>Son</u> Degree Prog.: <u>Alitya A. Ehiste</u> 202 Exe Nagar, <u>Tirtur</u> tood Port
431401	Dr. P.N. Toubland
 4. Name of Student's Adviser. 5. Purpose of visit:	of ward about his/her academic progress and ek the appropriate) : Excellent / Very good / Good / Satisfactory : Excellent / Very good / Good / Satisfactory : Excellent / Very good / Good / mg thehostel: Excellent / Very good / Good / Satisfactory ory / Non - Satisfactory ollege / hostel/ classes / teaching / practical / nt not covered above:
9. Parent'ssuggestion for improvemer	nt
	Signature of parent Contact No. 9096232499

COLLEGE OF AGRICULTURA	AL ENGINEERING & TECHNOLOGY ATHWADA KRISHI VIDYAPEETH,	
PARBHAN	II - 431 402 (MS)	
hone No: 02452 -223230 Email: adpcaetpbn@gmail.com		
PARENT'S F	EEDBACK FORM	
 Name of the parent and relation wi Name of students with Reg. No. D Address of the parent: <u>Sovt</u> 	ith student: <u>Ram Tukaram Vaidya (</u> ra egree Prog.: <u>Paulovi Ramrao Vai dya (2000</u> 9 nagori, pingli 70ad, khanapur 101,431401.	
4. Name of Student's Adviser:D	r. p.v., Morre	
 Purpose of visit:	of ward about his/her academic progress and ck the appropriate) : Excellent / Very good / Good / Satisfactory : Excellent / Very good / Good / stisfactory tory / Non - Satisfactory college / hostel/ classes / teaching / practical / int not covered above: ent Troprove campus selection	
activities		
	Signature of parent Contact No. 7768908555	

Table 8 :	Feedback	of Entrepreneur
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S. No	Name of Farmer	Mode of	Date	Concern	Action taken
1	Amol Harkal	Personal visit	26/12/2018	Enquiry regarding process technology popped and puffed products	Information regarding electrically operated multigrain popping cum puffing machine was given.
2	Sanjay Hatwar	Personal visit	04/01/2020	Enquiry for popping/ puffing of grain.	Information regarding popping/puffing machinery was given.
3	Dr. D. S. Bhawar	Personal visit	14/01/2020	Enquiry regarding processing machinery suitable for women.	Information of suitable processing technologies for start-ups for women was given.
4	Yogita Khandebh arad	Personal visit	22/03/2020	Electrically operated roaster for popping of multigrain	Information of roaster was given.
5	Dr. Kanhaiya Kadam	Personal visit	20/10/2021	Enquiry new industries based on agricultural produce.	Technology support for new industries based on agricultural produce was given.
6	Vijay Jadhav	Personal visit	26/06/2022	Multigrain roaster	Information regarding roaster was given.
7	Avinash Tidke	Personal visit	27/09/2022	Processing of multigrain	Information was given regarding machinery available for popping/ puffing of multigrain.
8	Mahesh Mohagaon kar, Basmat	Visit to Manufacturers plant at Basmat	02/08/2022	Turmeric boiler mountings and accessories related	Guided about usage of certified mounting and accessories.
9	Tanpure,	In person visit to	16/09/2022	Turmeric	Helping in design of

	Padmati boilers Basmat	the Department		boiler capacity related	advance boilers
				issues	
10	Madhav	In person visit to	29/07/2022	Turmeric	Given information of
	Barse,	the Department		boiler	boiler regulating
	Malegaon			certificatio	Government agency
				n issue	

6.4.8. Student intake and attrition in the programme for last five years

Name of the	Name of the Students admitted					Attrition (%)				
Degree Programme M.Tech	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23	2018- 19	2019 -20	2020 -21	2021 -22	2022 -23
Processing and Food Engineering	-	03 2M/1F	04 2M/2F	03 1M/2F	02 2M	-	-	-	-	50

Table 10: Students intake and attrition M. Tech degree programme

	M. Tech.						
Batch	Students admitted		Droj	pped			
	Μ	M F		F			
	No.	No.	No.	No.			
2018-19	00	00	00	00			
2019-20	02	01	00	00			
2020-21	02	02	00	00			
2021-22	01	02	00	00			
2022-23	02	00	01	00			

Table 11 : Students Pass out (M. Tech. degree programme)

Sr. No.	Year	No. of M. Tech. Students
1	2018-19	02
2	2019-20	01
3	2020-21	
4	2021-22	03
5	2022-23	04

6.4.9 ICT Application in Curricula Delivery

The PG classrooms are equipped with LCD projectors for power point presentations. Following ICT tools are used in PG classrooms and laboratories for teaching and conducting practical of PG courses.

- 1. Desktop and Laptop
- 3. Interactive White Board
- 5. Simple-Projector
- 7. Digital Camera
- 9. Wireless Microphone for Convenience

- 2. Document Camera/Visualize
- 4. Interactive Projector- Kayon
- 6. Speakers
- 8. Printer
- 10. Digital Podium

Certificate

I, Dr. U. M. Khodke, **Dean**, College of Agricultural Engineering & Technology, Parham hereby certify that the information contained in Section 6.4 (Section 6.4.1 to 6.4.9) are furnished as per the records available in the college and degree awarding University.

(U.M. Khodke) Dean

Date:

Seal:

Master of Technology (Agricultural Engineering) in 4) Farm Machinery and Power Engineering

6.4 Self Study Report of PG programmes

6.4.1 Brief history of PG programmes

The post-graduate programme leading to M.Tech. degree in Farm Machinery and Power Engineering was started in the year 1998 (MCAER order no. MCAER/EDU/CR-884/KA-2/603/96 dated 07 March 1996) with an intake capacity of two students. Further in 2002, M.Tech. degree programme was expanded with an intake capacity of four students.

The new and restructured PG programmes in Agricultural Engineering and Technology recommended by National Core Group of ICAR, New Delhi is being implemented from 2009-10 onwards. Since few academic staff were deputed for higher studies, the intake capacity of the M. Tech. programme was reduced to two students in 2018-19 and it was assumed as 4 students per disciplines afterwards.

The existing contents of M. Tech syllabus was examined critically, restructured, and updated keeping in view the latest developments in the subject areas.

Mission and Goals, Mandate of the College, Mission Statement, Goals and Objectives are same as given in department of Irrigation & Drainage Engineering.

Programme	Name of the Disciplines	Year of	Duration
		Establishment	
M. Tech.	Farm Machinery and Power	2002-2003	2 Year
(Agril. Engg.)	Engineering		(4 Sem.)

Table 1: M.Tech	. (Agril. Engg.)) degree programmes	offered with	duration
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Salient features of organization of course contents and credit requirements:

<u>Code Numbers, Course Contents</u>, Major courses, Minor courses, Supporting courses and Non-Credit Compulsory courses are same as given in department of Irrigation & Drainage Engineering.

6.4.2 Faculty Strength

For smooth conduct of PG degree programme, in addition to the faculty members at College of Agricultural Engineering and Technology, services of faculties of Agricultural Engineering working under various establishments in the campus such as Agriculture Colleges and research stations of the University are being engaged for course work and research work.

For fulfilling the requirements of supporting special and non credit compulsory courses of PG programme, common arrangements are made at the University level.

Sr. No.	Post	Sanc. post	Filled Post	Vacant	Faculty Recommen ded by the ICAR regulatory body	Devia tion (%)	Remarks
01.	Professor	0	0	0	1	100	Services of Teaching
02.	Associate	1	1	0	2	50	Staff from Agriculture,
	Professor						the research project such
03.	Assistant	3	3	0	3	00	as AICRP on UAE,
	Professor						Dept. of REE & BSCT
							are spared and deputed
							to support the teaching
							and research activities at
							CAET.

Table 2 : Faculty position of Department of Farm Machinery and Power Engineering

Major / Minor / Dual / Guest / Adhoc Faculty for Different Departments:

Sr. No.	Major Faculty	Minor Faculty	Dual Faculty	Guest / Ad-hoc Faculty	Other University Staff
01.	Dr. S.N. Solanki	Dr. R.T.	-	-	(1) Prof. Bharti (Stat),
		Ramteke			(2) Dr. S.S. Kadam
02.	Dr. P.A. Munde	Prof. V.M.	-		(Library Science),
		Bhosle			(3) Dr. P.S. Kapse
03.	Dr. G.U. Shinde	Dr. R.V. Shinde	-	-	(Ext. Education),
04.	Prof. D.V. Patil		-	-	(4) Dr. Suresh Waikar
					(Soil Science),
					(5) Dr. D.S. Perke
					(Economics)
6.4.3 Technical and supporting staff

The following posts of technical and supporting staff for field experimentation/ laboratory work/ workshop / farm work are in place at this college.

Table 3 : Technical and suppo	orting staff of Department of Farm Machinery and Power
Engineering	

S. No.	Name of Post	Sanctioned post	Filled post	Vacant post	Faculty recommended by the ICAR regulatory body	Deviation (%)
1	Senior Research	01	00	01	-	-
	Assistant					
2	Lab Assistant	-	-	-	02	100
3	Lab Attendant	02	02	-	-	-
4	Sr. Mechanic	01	01	-	-	-
5	Driver	01	-	01	01	00
6	Peon	-	-	-	01	100
7	PA/Steno	-	-	-	01	100
8	Clerk	-	-	-	01	100

6.4.4 Classrooms and Laboratories

Department of Farm Machinery and Power Engineering has well developed PG classroom and well-equipped laboratories. The theory classes are conducted with the help of audio-visual aids like K-Yan, LCD projector, etc.

Practical are conducted in laboratories of the respective department, Field laboratories such as solar energy park, Animal Energy Park and farms of the research stations are being utilised for the demonstration of practical of PG courses. Computer laboratory, CAD-CAM laboratory are established in the college with software facilities like ARIS / LAN, Pro-E, ANSYS, MATLAB and Simulink, GIS and Design Expert and utilised for teaching and research work. Advanced equipments like IC engine test rig, digital hardness test rig, metal composition testing machine, CNC machine, engine test rig, Laser leveller, Workshop, Draftability Lab, Animal Drawn Agro Processing Unit, Cut Model of Tractor are available for practical and demonstration in the departments.

PG Classrooms

Separate classrooms for PG programme are established in Dept. of Farm Machinery and Power Engineering.

Laboratories

Table	e 4 : Details of Laboratory	Department of	Farm Mac	hinery and	Power Er	ngineering

S.	Name of the Laboratory	Length	Breadth	Area	Seating Capacity
No.	Ivame of the Laboratory	(m)	(m)	(sq.m)	(No. of
					Student)
1	Workshop	10.60	21.80	231	40
2	Farm Power	11.15	21.40	239	40
3	Engineering Drawing Hall	11.15	18.80	198	40
4	Implement Shed	16.50	29.60	488	40
5	Exhibition Hall	10.60	22.00	233	40
6	CAD- CAM Lab	06.00	15.00	90	40
7	Drawing Hall	11.15	17.80	198	40

Table 5 : Details of department wise list of equipments/instruments/implements

Sr.	Name of Equipment
No.	
	Department of Farm Machinery and Power Engineering
1	Tractor 50 hp-2 ; 25 hp-1 and 40 hp-3
2	Power Tiller, Reaper
3	Lathe Machine, CNC Machine, Shaper Machine, welding machine
4	Grinder
5	Tool kits with box (Ellen key set, Open end spanner set, Pliers, Nose pliers, Circlip
	pliers)
6	Cut sections of Tractor, Single and Multi cylinder engine, Air cleaner, Gear box,
	Differential, Battery, Fuel injection pump
7	Models of Electrical system, Lubrication system, Cooling system, Tractor hydraulic
	system
8	Mould board plough, Sub-soiler, Rotary tiller, Cultivator, Seed-cum fertilizer, drill
	Inclined plate planter, Vertical conveying reaper, Potato digger
9	Laser leveller
10	Set of animal drawn implements: disc harrow and cultivator
11	Potato planter, Sugarcane cutter planter
12	Knap sack sprayer
13	Wheat thresher, Paddy thresher, Multi crop thresher
14	Standard disc plough, Mould board
15	In addition, the equipment / machines available under farm machinery Testing
	centre are used for practical of PG students.

6.4.5 Conduct of Practical and Hands on Training:

Conduct of Practical

The practical and hands on training are conducted in the laboratories in the department and field allocated to department. The practical are conducted as per the lesson plan by using the requisite instruments and facilities available in the laboratories, on farm, workshops, animal energy park. The techniques are demonstrated to the students and actual experiments are performed.

Hands on Training

The students are deputed to different industries such as Tractor, Farm Implements, NGO's, Research Organizations for advanced training for the period of three weeks for M. Tech. programmed in order to get exposure. The training constitutes practical activities such as production process, quality testing, measurements and research and developmental activities to promote their innovative ideas and skills. Students acquire skills through hands-on practice. The students are also exposed to marketing and management activities of various enterprises. Training helps the students to minimize the gap between theoretical knowledge and practical applications. The students also get an idea for planning and execution of their PG research work.

6.4.6 Supervision of students in M. Tech. programme

One supervisor (guide) is allotted to every PG Student for supervision of research work. Supervisor monitors academic and research activities of students through Student Advisory Committee.

Table 6: Details of students allotted for supervision of research work in the M.Tech.degree programme.

S.	Year	No of
No.		Students
1	2018-19	02
2	2019-20	04
3	2020-21	02
4	2021-22	05
5	2022-23	01

Table 7 : Details of students allotted for supervision of research work in the M.Tech.degree programme (Department of FMPE)

S. No.	Year	Name of Faculty	No of
			Students
1	2018-19	Dr. S.N. Solanki	02
2	2019-20	Dr. S.N. Solanki	01
		Dr. R.T. Ramteke	01
		Dr. P.A. Munde	01
		Dr. G.U. Shinde	01
3	2020-21	Dr. S.N. Solanki	01
		Dr. P.A. Munde	01
4	2021-22	Dr. G.U. Shinde	02
		Dr. S.N. Solanki	02
		Dr. R.T. Ramteke	01
5	2022-23	Dr. P.A. Munde	01

6.4.7 Feedback of stakeholders (Students and parents, industries, etc.)

College has well defined feedback mechanism of different stakeholders i.e. students, parents and industries. Real feedback of the students was also collected frequently from the suggestion and complaint box placed near Associate Dean and Principal office. Regular students-parents meeting with college authorities were organized to take feedback from the parents. Employers are encouraged to give their feedback during monthly meetings while farmers suggestions and feedback were taken directly through regular inward procedure. College authority has acted as per rules on the issues raised in the feedback of stakeholders.

Student's Feedback Mechanism

- The students are encouraged to give the FEEDBACK in the prescribed form
- Prescribed FEEDBACK form is provided at Education section of the college for registered students and pass out students can download the feedback form from the College Website. Student are submitting the FEEDBACK form to the education section or they drop the feedback form in the suggestion box kept in the office of Associate Dean and Principal.
- Filling the feedback form is voluntary.
- The feedback information received is used to improve the overall standards in the college in developing both academic and non-academic facilities.
- In addition the Advisors / ADP conducts separate interaction secession's to get students feedback overlay / in writing through feedback form.
- The information provided by the students in the feedback form is kept confidential.

Redressal Mechanism

- The feedback forms are scrutinized and specific suggestions are discussed in the monthly meeting. The suggestions and feedbacks are addressed by the concerned college committee.
- Feedbacks are also discussed in the Board of Study and Academic staff meeting at college level.
- If required, the feedbacks are also will be taken up by in the Faculty Meeting to formulate policies.

Students' Feedback

	anı			- 1		ch. & Ph.D. (Agricultural Engineering) Par	bhani	and interesting the	-	-
COLLEGE OF ACRICULTURAL ENGIN	FERING &	TECH	Email Id: NOLOGY		1	Seminars		V		
VASANTRAO NAIK MARATHWADA	KRISHI V	IDYAP	EETH,	\$	2	Special Lectures /Guest Lectures/Virtual Lectures		~		
PARBHANI - 431 40	2 (MS)		1 0 1		3	Handson Training/ In-plant Training for Academic Enhancement			~	
Phone No: 02452 -223230	Email:	adpeaetp	pbn/a)gmail.c	om	4	Class Presentations/ Projects/ Workbooks	0		-	-
					5	Facilitate Teaching	<i></i>	V		
STUDENTS FEEDBAC	<u>K FROM</u>				6	Multidisciplinary Projects/ Live Projects Industrial Attachment and Experiential		-	V	
For Registered Stud	lent)				7	Learning Program				L
Discipline in case of PG Degree : Ag Ecococo	Mad	hinen	4 Lpou	verengineeng	8	NSS / NCC Activities			V	
Name of the Student : Bhalerao Sushar	of R.	Registra	ation No. : 2	02/AE/DIM		frastructural Facilities College Website	~			1
Year of Admission : 202) /		Semeste	er: IV		2	Class room Infrastructure			~	· · · · · ·
This questionnaire is intended to collect info	ormation re	lating to	your satisfa	ection	3	(only for female students)				
towards the curriculum, learning and evaluation. The	information	n provid	ed by you w	ill be	4	Drinking water facility Washroom Cleanliness and maintenance	V	V	i.	
kept confidential and will be used as important feed	lback for q	uality in	nprovement o	of the	6	Greenery in the college campus			~	
programme of studies / institution.				·	7	premises	V		1	
Sr. How do you rate the following	Excellent	Good	Good Satisfa	ctory		des SUCCESTIONS -				
Academic Resources (Faculty)					Any o	SUBCE SUGGESTIONS :				
1 Mentoring and Motivating Students for Academic Growth and Development	V			22						
2 Content of Syllabi of the Courses	V			_						
4 Delivery of Content in the Class	V				•				Y	lon
5 Regularity and Sincerity 6 Subject Expertise	5							12	500	
7 Linking Theory with Examples and Practices					Place:	Padenani		Name:	ire of t	Jerao S
Accessibility for interactions Use of Teaching Aids and ICT in the Class to	V							Mobile	No:	9270841
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10 Innovative Thinking	r i									
11 Curricular Activities	V									
12 Over all Learning Experience with the faculty	\checkmark									
C. H. J. State of the following		Van								
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- Name of Student's Adviser: the state of the

- Process of ward's leaving/ joining the hostel: Excellent / Very good / Good /

- Present Fees structure: Satisfactory Parent's general opinion about to college / host/ class/ staching / practical / student's progressor any other point not covered above المعام معام المعام الم
- 9. Parent's suggestion for improvement
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Purpose of visit;
 Do you get periodical information of ward about his/her academic progress and

- 9. Parent's suggestion for improvement

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VNMKV: Accreditation Report 2018-2023

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	Phone No: 02452 -223230 Email: adpcaetpbn@gmail.com							
	PARENT'S FEEDBACK FORM							
	 Name of the parent and relation with student: <u>DryonShwat</u> Shambao. Hackal [Name of students with Reg. No. Degree Prog: <u>Hackal</u> Bangebuilts. An' Oryon 	foth Shw						
	3. Address of the parent: AL Kumbhari Ta Tintur Dist parbhoni							
	4. Name of Student's Adviser: OC. S. A. Solonki							
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	Do you get periodical information of ward about his/her academic progress and							
	attendance: Yes / No							
	7. Feedback/ comments of parent: (lick the appropriate)							
	Co-operation from faculty Excellent / Very good / Good / Satisfactory							
	Administrative support : Excellent / Very good / Good /							
	Satisfactory							
	 Process of ward's leaving/ joining the hostel: Excellent / Very good / Good / 							
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Farmer Group's Feedback

COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI - 431 402 (MS)	COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI – 431 402 (MS)				
Phone No: 02452 -223230 Email: adpcaetpbn@gmail.com	Phone No: 02452 -223230 Email: adpcaetpbn@gmail.com				
FARMERS/GROUP OF FARMERS / S.H.G. / F.P.O. FEEDBACK FORM	FARMERS/GROUP OF FARMERS / S.H.G. / F.P.O. FEEDBACK FORM				
1. Name of the farmer / Farmers' Group.	1. Name of the farmer / Farmers' Group.				
2. Address of the farmer/Farmers' Group.	2. Address of the farmer/Farmers' Group.				
3. Date of Visit to college / Dept. / Unit. :	3. Date of Visit to college / Dept. / Unit. :				
4. Name of Department / Unit to which Farmer's visit and queries are related: IDE /	4. Name of Department / Unit to which Farmer's visit and queries are related: IDE /				
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5. Brief information of farmer's query:	5. Brief information of farmer's query:				
6. Name of Attending scientist / Faculty / Technical Person: -2004 his a 2004 hos cons	6. Name of Attending scientist / Faculty / Technical Person:				
7. Comments of farmer/ group of farmers	7. Comments of farmer/ group of farmers				
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	FARMERS/GROUP OF F.P.O. FEEDB	FARMERS/S.H.G./		FARMERS/GRO F.P.O.	UP OF FARMERS / S.H.G. / FEEDBACK FORM
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6.	Name of Attending scientist / Faculty / 1 Comments of farmer/ group of farmers Resource and Guidance by University	cennical Person:		Comments of farmer/ group of fa Resource and Guidance by Un	rulty / Technical Person:
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		Signature Contact No			Signature Contact No. <u>90208-13635</u>
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Name of the	Students admitted					Attrition (%)				
Degree Programme M.Tech	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23	2018- 19	2019 -20	2020 -21	2021 -22	2022 -23
Farm	03	04	04	05	02	33.33	-	50	-	50
Machinery	2M/1F	2M/2F	3M/1F	2M/3F	1M/1F					
and Power										
Engineering										

6.4.8. Student intake and attrition in the programme for last five years Table 8 : Student intake and attrition in the M.Tech. programme in last five years

Table 9: Students intake and attrition	M. Tech	degree	programme
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	M. Tech.					
Batch	Students admitted		Droj	pped		
	M F		М	F		
	No.	No.	No.	No.		
2018-19	02	01	00	01		
2019-20	02	02	00	00		
2020-21	03	01	01	01		
2021-22	02	03	00	00		
2022-23	01	01	01	00		

Table 10 : Students Pass out (M. Tech. degree programme)

Sr. No.	Year	No. of M. Tech. Students
1	2018-19	02
2	2019-20	02
3	2020-21	02
4	2021-22	04
5	2022-23	02

6.4.9 ICT Application in Curricula Delivery

The PG classrooms are equipped with LCD projectors for power point presentations. Following ICT tools are used in PG classrooms and laboratories for teaching and conducting practical of PG courses.

- 1. Desktop and Laptop
- 3. Interactive White Board
- 5. Simple-Projector
- 7. Digital Camera
- 9. Wireless Microphone for Convenience

- 2. Document Camera/Visualize
- 4. Interactive Projector- Kayon
- 6. Speakers
- 8. Printer
- 10. Digital Podium

Certificate

I, Dr. U. M. Khodke, **Dean**, College of Agricultural Engineering & Technology, Parham hereby certify that the information contained in Section 6.4 (Section 6.4.1 to 6.4.9) are furnished as per the records available in the college and degree awarding University.

(U.M. Khodke) Dean

Date:

Seal:

VNMKV: Accreditation Report 2018-2023

6.4 Self-Study Report of the Ph.D. Programme

Doctor of Philosophy (Agricultural Engineering) in 1) Irrigation and Drainage Engineering

6.4 Self Study Report of Ph. D. programmes

6.4.1 Brief history of Ph.D. programmes

In 2013-14, Ph.D. (Agri. Engg.) degree programme of Irrigation and Drainage Engineering with intake capacity of two students as per MCAER decision No. 21/88/2013 of order No. MCAER/EST-5/ACM-2113/1649/2013 has been started.

The existing contents of Ph.D. level syllabus were examined critically, restructured and updated keeping in view the latest developments in the subject areas.

Mission and Goals

Mandate of the College

The institute is working with three mandates of education, research and extension in which the institute imparts quality education, conducts applied research and transfers Agricultural Engineering technologies to farmers and students.

Mission Statement

To impart professional knowledge and skills to students to empower them for self-employment.

Goals

• To meet the needs of farmers, industries, R & D organizations and educational institutions.

- To develop capabilities among the students for their overall professional development and make them updated to face the future challenges in agriculture.
- Continuing education to impart for re-engineering on socio-economic systems in the light of global technology changes.

Objectives

- To educate postgraduates in the field of Agricultural Engineering so as to prepare them as leaders in industry and profession.
- To upgrade the laboratories and infrastructure facilities as per the requirements of syllabus for providing quality education.
- To conduct need-based quality research by applying engineering principles to solve the problems of agricultural eco-system and also making sincere efforts to transfer the agricultural engineering technologies for empowerment of students and farmers.
- To update the faculty by exposing them to advanced trainings and higher studies.
- To establish Institute-Industry linkages.
- To establish collaborations through MoUs with various research organizations and institutes, to conduct innovative research..

Table 1: Ph.D. (Agril. Engg.) degree programmes offered with duration

Ph.D. (Agril. Engg.) degree programmes offered with duration							
Ph. D.	1) Irrigation and Drainage Engineering	2013-2014	3 Year				
(Agril.			(6 Sem.)				
Engg.)							

Salient features of organization of course contents and credit requirements:

Code Numbers

- All courses are divided into series: 600-series courses pertain to Doctoral level. A PhD student have to take a minimum of two 600 series courses, but may also take 500-series courses if not studied during Master's programme.
- Two Credit seminars for Doctoral level programme are coded as 691 and 692, respectively.
- Similarly 699 codes have been given for Doctoral research.

Course Contents

The contents of each course are organized into:

- Objective to elucidate the basic purpose.
- Theory units to facilitate uniform coverage of syllabus for paper setting.

- The list of journals pertaining to the discipline is provided at the end of course content which is useful as study material for 600-series courses as well as research topics.
- E-Resources are provided for quick update on specific topics/events pertaining to the subject.
- Broad research topics provided at the end would facilitate the advisors for appropriate research directions to the PhD students.

Major courses: The subject discipline (Department) in which the students take admission **Minor courses:** The subject closely related to student's major subject.

Supporting courses: The subject not related to the major subject. It could be any subject considered relevant for student's research work.

Non-Credit Compulsory courses: Six courses (PGS 501 to PGS 506) are of general nature. Ph. D. students are exempted from these courses if they have already studied during their Master's degree.

Minimum course and research credits requirement for the award of Ph. D. (Agril. Engg.) degree is given in Table 2.

Table 2: Minimum course and research credits requirement for the award of Ph.D. (Agril.Engg.) degree (till 2021-22)

Credit Distribution	Ph.D. (Agril. Engg.)
Major courses	15
Minor courses	08
Supporting Courses	05
Seminar	02
Research Work	45
Non-credit compulsory courses	06
Total	75

Minimum Credit requirement as per BSMA syllabus implemented from 2022-23

Course Details	Ph.D. (Agril. Engg.)
Major Courses	12
Minor Courses	06
Supporting / Optional	05
Common PGS Courses	05*
Seminar	02
Research	75
Total	100

*if not completed at Master's level

Course structure of Master's Programme as per BSMA Syllabus (2022-23)

6.4.2 Faculty Strength

For smooth conduct of Ph.D. degree programme, in addition to the faculty members at College of Agricultural Engineering and Technology, services of faculties of Agricultural Engineering working under various establishment in the campus such as Agriculture Colleges and research stations of the University are being engaged for course work and research work.

For fulfilling the requirements of supporting special and non credit compulsory courses of Ph.D. programme, common arrangements are made at the University level.

Sr. No.	Post	Sanc. post	Filled Post	Vacant	Faculty Recommen ded by the ICAR regulatory body	Devia tion (%)	Remarks
01.	Profes	0	0	0	1	100	Services of Teaching
	sor				-		Stall from Agriculture,
02.	Associ	1	0	0	2	50	the research project &
	ate						dept. of Agriculture
	Profes						Engineering COA,
	sor						VNMKV, Parbhani &
03.	Assist	2	2	0	3	33	BSCT are spared and
	ant						deputed to support the
	Profes						teaching and research
	sor						activities at CAET.

 Table 3 : Faculty position: Department of Irrigation and Drainage Engineering

Major / Minor / Dual / Guest / Adhoc Faculty for Different Departments:

Sr. No.	Major Faculty	Minor Faculty	Dual Faculty	Guest/ Adhoc Faculty	Other University Staff
01.	Dr. H.W. Awari	Prof. B.W.	Dr. M.S.		(1) Prof. Bharti (Stat),
		Bhuibhar	Pendke		(2) Dr. S.S. Kadam
02.	Dr. S.B. Jadhav	Dr. M.R. More			(Library Science),
03.	Dr. V.K. Ingle	Dr. S.D. Vikhe			(3) Dr. P.S. Kapse
04.	Dr. U.M. Khodke	Prof. V.M. Bhosle			(Ext. Education),
05.		Dr. R.V. Shinde			(4) Dr. Suresh Waikar
					(Soil Science),
					(5) Dr. D.S. Perke
					(Economics)

6.4.3 Technical and supporting staff

The following posts of technical and supporting staff for field experimentation/ laboratory work/ workshop / farm work are in place at this college.

S. No.	Name of Post	Sanctioned post	Filled post	Vacant post	Faculty recommended by the ICAR regulatory body	Deviation (%)
1	PA/Steno	-	-	-	01	100
2	Clerk	-	-	-	01	100
3	Lab Assistant	01	00	01	02	50
4	Peon	-	-	-	01	100

 Table 4: Technical and supporting staff of Department of Irrigation and Drainage

 Engineering

6.4.4 Classrooms and Laboratories

Each department of Irrigation and Drainage Engineering has well developed PG classroom and well-equipped laboratories. The theory classes are conducted with the help of audio visual aids like K-Yan, LCD projector, etc.

Practical are conducted in laboratories of the department, Field laboratories such as micro irrigation laboratory, green house structures, and farms of the research stations are being utilised for the demonstration of practical. Computer laboratory, CAD-CAM laboratory and language laboratory are established in the college with software facilities like ARIS / LAN, A to Z Watershed software, Pro-E, ANSYS, MATLAB and Simulink, GIS and Design Expert and utilised for teaching and research work. Advanced equipments like total survey station, pump test rig, digital hardness test rig, Leaf area meter, water quality kit, Laser leveller, Water activity meter, Extruder, electrically operated roaster, Universal testing machine and compression testing machine are available for practical and demonstration in the department.

Classrooms

Separate classrooms for Ph.D. programme are established in Dept. of Irrigation and Drainage Engineering

Laboratories

S.	Name of the Laboratory	Length Breadth		Area	Seating Capacity
No.	Walle of the Laboratory	(m)	(m)	(sq.m)	(No. of
					Student)
1	Irrigation Engineering Lab.	14.10	11.30	159	40
2	Fluid mechanics and Micro Irrigation Lab.	11.30	21.00	237	40

Table 5 : Details of Laboratory Department of Irrigation and Drainage Engineering

3	Micro Irrigation Field Lab.	100	100	10000	40
4	Geo-informatics Computer Lab.	3.00	4.00	12.00	10
5	Lysimeter-AWS Field Lab.	140	100	14000	40

Table 6 : Details of department wise list of equipments/instruments/implements

Sr.	Name of Equipment							
No.								
	Department of Irrigation and Drainage Engineering							
1	Oven, Tensiometer, Electrical Conductivity Meter							
2	Double Ring Infiltrometer, pH Meter,							
3	Water Quality Testing Kit							
4	Sprinkler and Drip Irrigation System Components							
5	Irrigation Water Measuring Devices (V-Notch, Parshall Flume, H-Flume, Orifice							
	Plate)							
6	Venturimeter, orifice meter setup, Parshall Flumes, Mouthpiece							
7	Bernoulli's Theorem Apparatus							
8	Meta-centric height Apparatus							
9	Tilting flume apparatus							
10	Current meter, Pan evaporimeter, Electrical resistivity meter							
11	Different manometers							
12	Different components of pumping unit: impellers, foot valves, etc.							
13	Different flow control valves for pipe flow							
14	Different types of pipes and pipe fittings							
15	Pump test rig							
16	Different models: water regulating structures in canal irrigation: head regulators,							
	canal regulators, cross drainage works, etc							
17	Water Quality Analysis kit							
18	Flame Photo meter							
19	Leaf Area meter							
20	Drip Irrigation Automation Unit							

6.4.5 Conduct of Practical and Hands on Training:

Conduct of Practical

The practical and hands on training are conducted in the laboratories of respective departments and field allocated to concern department.

The practical are conducted as per the lesson plan by using the requisite instruments and facilities available in the respective laboratories, on farm, workshops, ELP unit, solar energy park, Micro irrigation laboratory, farm ponds, green house and shade net structures. The techniques are demonstrated to the students and actual experiments are performed.

6.4.6 Supervision of students in Ph. D. programme

One supervisor (guide) is allotted to every Ph.D. Student for supervision of research work. Supervisor monitors academic and research activities of students through Student Advisory Committee.

S. No.	Year	Year Name of Faculty					
1	2018-19						
2	2019-20						
3	2020-21						
4	2021-22						
5	2022-23	Dr. U.M.Khodke	01				

Table 7 : Details of students allotted for supervision of research work in the Ph.D.degree programme (Department of IDE)

6.4.7 Feedback of stakeholders (Students, parents, industries etc.)

College has well defined feedback mechanism of different stakeholders i.e. students, parents and industries. Real feedback of the students was also collected frequently from the suggestion and complaint box placed near Associate Dean and Principal office. Regular students-parents meeting with college authorities were organized to take feedback from the parents. College authority has taken action as per rules on the issues raised in the feedback of stakeholders.

Student's Feedback Mechanism

- The students are encouraged to give the FEEDBACK in the prescribed form
- Prescribed FEEDBACK form is provided at Education section of the college for registered students and pass out students can download the feedback form from the College Website. Student are submitting the FEEDBACK form to the education section or they drop the feedback form in the suggestion box kept in the office of Associate Dean and Principal.
- Filling the feedback form is voluntary.
- The feedback information received is used to improve the overall standards in the college in developing both academic and non-academic facilities.
- In addition the Advisors / ADP conducts separate interaction secession's to get students feedback overlay / in writing through feedback form.
- The information provided by the students in the feedback form is kept confidential.

Redressal Mechanism

- The feedback forms are scrutinized and specific suggestions are discussed in the monthly meeting. The suggestions and feedbacks are addressed by the concerned college committee.
- Feedbacks are also discussed in the Board of Study and Academic staff meeting at college level.
- If required, the feedbacks are also will be taken up by in the Faculty Meeting to formulate policies.

Ph.D. Students' Feedback

		Email Id		/				
COLLEGE OF AGRICULTURAL ENGL	EERING &	TECHNOLOG	Y 🙀	1	Seminars	V		
VASANTRAO NAIK MARATHWAD PARBHANI - 431 4	A KRISHI V 02 (MS)	/IDYAPEETH,	~	2	Special Lectures /Guest Lectures/Virtual Lectures	V		
Phone No: 02452 -223230	Email	adpcaetpbn@gma	ill.com	3	Handson Training/ In-plant Training for Academic Enhancement		~	
		*.		4	Class Presentations/ Projects/ Workbooks	~	_	
	CK EDOM			5	Use of Teaching Aids and ICT in the Class to Facilitate Teaching	~		
STUDENTS FEEDBA	<u>A FROM</u>			6	Multidisciplinary Projects/ Live Projects		V	
(For Registered Stu	ident)			7	Industrial Attachment and Experiential		V	
Degree Program: B.Tech. /M.Tech. /Ph.D. (Agricultu	al Engineer	ng)		9	Placement Call Activities			
Disainling in case of PG Deuree - Testes Man	Denir	. Enderand		0	NSS / NCC Activities	~	V	
Discipline in case of PO Degree : 1 2219 4 100 0	Doorwa	ge Eugineeely	2	9	frastructural Facilities		v	
Name of the Student : Mr. Bhagil Yuven to	ntilal	Registration No. :	2002AE/03P	1	College Website	V		
Year of Admission : 2088-28		Semester: TT"	eb.D.	2	Class room Infrastructure	1º		
			,	0	Girls Common Room			
This guestionnaire is intended to collect in	formation re	lating to your sat	tisfaction	3	(only for female students)			-
towards the curriculum, learning and evaluation. Th	e informatio	n provided by you	a will be	4	Drinking water facility	V		
	Barris Provi	, i ser	at of the	5	Washroom Cleanliness and maintenance		V	
kept confidential and will be used as important rec	UDACK TOT C	uanty improvement	in of the	6	Greenery in the college campus	V		
programme of studies / institution.				7	Cleanliness and maintenance of college		V	
	Excellent	Good Good Sati	istactory					
Academic Resources (Faculty)				Any o	ther SUGGESTIONS :			
Academic Resources (Faculty) 1 Mentoring and Motivating Students for Academic Growth and Development	~		6	Any o	ther SUGGESTIONS : אם .			
Academic Resources (Faculty) 1 Mentoring and Motivating Students for Academic Growth and Development 2 Content of Syllabi of the Courses	77		<u> </u>	Any o	ther SUGGESTIONS : ካይ			
Academic Resources (Faculty) Mentoring and Motivating Students for Academic Growth and Development Content of Syllabi of the Courses Extent of Syllabi covered in the Class	77	· · · · · · · · · · · · · · · · · · ·		Any o	ther SUGGESTIONS :			
Academic Resources (Faculty) Hentoring and Motivating Students for Academic Growth and Development Content of Syllabi orthe Courses Steven to Syllabi covered in the Class Delivery of Content in the Class	Y Y Y	· · · · · · · · · · · · · · · · · · ·		Any o	ther SUGGESTIONS : אם			
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Academic Resources (Faculty) I Mentoring and Motivating Students for Academic Growth and Development 2 Content of Syllabil overed in the Class 3 Extent of Syllabil overed in the Class 4 Delivery of Content in the Class 5 Regularity and Sincerity 6 Subject Expertise 7 Linking Theory with Examples and Practices 8 Accessibility for Interactions	7 7 7777	Y		Any o	her SUGGESTIONS : ND		Signature	The Student
Academic Resources (Faculty) 1 Mentoring and Motivating Students for Academic Growth and Development 2 Content of Syllabi overed in the Class 3 Extent of Syllabi overed in the Class 4 Delivery of Content in the Class 5 Regularity and Sincerity 6 Subject Expertise 8 Accessibility for Interactions 9 Use of Teaching Aids and ICT in the Class to Facilitate Teaching.	> > > >>>>>	· · · · · · · ·		Any o	her suggestions : No		Signature Name: 🎵 Mobile No	144 11 Hir Student 107, Y.K. Bhu 8669 15757
Academic Resources (Faculty) 1 Mentoring and Motivating Students for Academic Growth and Development 2 Content of Syllabi overed in the Class 3 Extent of Syllabi overed in the Class 5 Regularity and Sincerity 6 Subject Expertise 7 Linking Theory with Examples and Practices 8 Accessibility for Interactions 9 Use of Teaching Aids and ICT in the Class of Facilitate Teaching 10 Encouragement for Out of the Box and Innovative Thinking	7 7 7777	· · · · · · · · · · · · · · · · · · ·		Any o	hersuggestions: ND Paebhani		Signature Name: px Mobile No	His Student Inr. Y.K. Bha 8669 15750
Academic Resources (Faculty) 1 Mentoring and Motivating Students for Academic Growth and Development 2 Content of Syllabi of the Courses 3 Extent of Syllabi of the Class 4 Delivery of Content in the Class 5 Regularity and Sincerity 6 Subject Expertise 7 Linking Theory with Examples and Practices 8 Accessibility for Interactions 9 Use of Teaching Aids and ICT in the Class to Facilitate Teaching 10 Encouragement for Out of the Box and Inovative Thinking 11 Encouragement for Out of the Box and Lixtra- Curricular Activities	> > >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	· · · · · · · · · · · · · · · · · · ·		Any o	Parbhani		Signature Name: p v Mobile No	His Student of the Student Irr. Y.K. Bha 8669 15750
Academic Resources (Faculty) 1 Mentoring and Motivating Students for Academic Growth and Development 2 Content of Syllabi overed in the Class 3 Extent of Syllabi overed in the Class 4 Delivery of Content in the Class 5 Regularity and Sincerity 6 Subject Expertise 7 Linking Theory with Examples and Practices 8 Accessibility for Interactions 9 Use of Teaching Aids and ICT in the Class to Facilitate Teaching 10 Encouragement for Out of the Box and Imnovative Thinking 11 Encouragement for Co-Curricular and Extra- Curricular Activities 12 Over all Learning Experience with the faculty	× × × × × × × × × × × × × × × × × × ×			Any o	her SUGGESTIONS : ND		Signature Name: pw Mobile No	Hit Student Inr. Y.K. Bha 8669 1575

Parent's Feedback

COLLECE OF AGRICIU TUDAL ENCINEEDING & TECHNOLOGY	COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI - 431 402 (MS)	VASANTRAO NAIK MARATHWADA KRISH VIDYAPEETH, PARBHANI - 431 402 (MS)
Phone No: 02452 -223230 Email: adpcaetpbn@gmail.com	Phone No: 02452 -223230 Email: adpcaetpbn@gmail.com
PARENT'S FEEDBACK FORM	PARENT'S FEEDBACK FORM
1. Name of the parent and relation with student Vorsha Bonsi Pawor (Sister) 2. Name of students with Rey. No. Degree Prog. Harshare, Bansi Pawar (Sister) 3. Address of the parent: At: Wanjon wadi, fait: madime hi,	 Name of the parent and relation with student. <u>Shart areas</u> D. Chaudhari (Form. Name of students with Reg. No. Degree Prog.: <u>Chaudhari View S. (2020)</u> Address of the parent: <u>Pt. prit. Varithark</u>, <u>Name Students</u> Address of the parent: <u>Pt. Ditt. Ditt.</u>
A . Cerebrial, <u>Dick: Beed - 431402</u> Name of Student's Adviser: <u>Dat. V. K. J. Ngle</u> Purpose of visit: <u>Cas.</u> <u>calleage</u> <u>U.s.1</u> Do you getroidcal information of ward about his/her academic progress and attendance: Yes / No Peedback/ comments of parent.(tick the appropriate) Ward's Security <u>Excellent / Very good / Good / Satisfactory</u> Co-operation from faculty <u>Excellent / Very good / Good / Satisfactory</u> Administrative support <u>Excellent / Very good / Good / Satisfactory</u> Administrative support <u>Excellent / Very good / Good / Satisfactory</u>	 Name of Student's Adviser. <u>Dr. 5: D. ViEbe</u> Purpose of visit: <u>Acadeexic</u> <u>Pri yeess</u>. Do you get periodical information of ward about his/her academic progress and attendance: <u>Visit</u> No Feedback/ comments of parent.(tick the approgriate) Ward's Security : Excellent / Very good / Good / Satisfactory Co-operation from faculty : Excellent / Very good / Good / Satisfactory Administrative support : Excellent / Very good / Good / Satisfactory
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6.4.8 Student intake and attrition in the programme for last five years

Name of	Students admitted						Attrition (%)				
the Degree Programme Ph. D.	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23	
Irrigation and Drainage Engineering	-	-	-	-	01 1M	-	-	-	-	-	

Table 8: Student admitted and attrition in Ph.D. programme in last five years

Table 9: Students intake and attrition Ph. D. degree programme

		Ph	. D.		
Batch	Students admitted		Dropped		
	М	F	M	F	
	No.	No.	No.	No.	
2018-19	00	00	00	00	
2019-20	00	00	00	00	
2020-21	00	00	00	00	
2021-22	00	00	00	00	
2022-23	01	00	00	00	

 Table 10 : Students Pass out (Ph.D. degree programme)

Sr. No.	Year	No. of Ph.D. students
1	2018-19	03
2	2019-20	-
3	2020-21	02
4	2021-22	-
5	2022-23	-

6.4.9 ICT Application in Curricula Delivery

The PG classrooms are equipped with LCD projectors for power point presentations. Following ICT tools are used in PG classrooms and laboratories for teaching and conducting practical of PG courses.

- 1. Desktop and Laptop
- 3. Interactive White Board
- 5. Simple-Projector
- 7. Digital Camera
- 9. Wireless Microphone for Convenience

- 2. Document Camera/Visualize
- 4. Interactive Projector- Kayon
- 6. Speakers
- 8. Printer
- 10. Digital Podium

Certificate

I, Dr. U. M. Khodke, **Dean**, College of Agricultural Engineering & Technology, Parbhani hereby certify that the information contained in Section 6.4 (Section 6.4.1 to 6.4.9) are furnished as per the records available in the college and degree awarding University.

(U.M. Khodke) Dean

Date:

Seal:

Doctor of Philosophy (Agricultural Engineering) in 2) Soil and Water Conservation Engineering

6.4 Self Study Report of Ph. D. programmes

6.4.1 Brief history of Ph.D. programmes

In 2013-14, Ph.D. (Agri. Engg.) degree programme of Soil & Water Conservation Engineering with intake capacity of two students as per MCAER decision No. 21/88/2013 of order No. MCAER/EST-5/ACM-2113/1649/2013 has been started.

The existing contents of Ph.D level syllabus were examined critically, restructured and updated keeping in view the latest developments in the subject areas.

Mission and Goals, Mandate of the College, Mission Statement, Goals and Objectives are same as given in department of Irrigation & Drainage Engineering.

Table 1: Ph.D. (Agril. Engg.) degree programmes offered with duration

Ph.D. (Agril. Engg.) degree programmes offered with duration							
Ph. D.	Soil and Water Conservation	2013-2014	3 Year				
(Agril.	Engineering		(6 Sem.)				
Engg.)							

Salient features of organization of course contents and credit requirements:

<u>Code Numbers, Course Contents</u>, Major courses, Minor courses, Supporting courses and Non-Credit Compulsory courses are same as given in department of Irrigation & Drainage Engineering.

6.4.2 Faculty Strength

For smooth conduct of Ph.D. degree programme, in addition to the faculty members at College of Agricultural Engineering and Technology, services of faculties of Agricultural Engineering working under various establishment in the campus such as Agriculture Colleges and research stations of the University are being engaged for course work and research work. For fulfilling the requirements of supporting special and non credit compulsory courses of Ph.D. programme, common arrangements are made at the University level.

Sr. No.	Post	Sanc .post	Filled Post	Vacant	Faculty Recommen ded by the ICAR regulatory body	Devia tion (%)	Remarks
01.	Professor	0	0	0	1	100	Services of Teaching
02.	Associate	1	1	0	2	50	Staff from Agriculture,
	Professor						the research project &
03.	Assistant	2	2	0	3	33	dept. of Agriculture
	Professor						Engineering COA,
							VNMKV, Parbhani &
							BSCT are spared and
							deputed to support the
							teaching and research
							activities at CAET.

Table 2 :	Faculty	position of	of Departmen	t of Soil &	Water	Conservation	Engineering
	•	1					

Major / Minor / Dual / Guest / Adhoc Faculty for Different Departments:

Sr. No.	Major Faculty	Minor Faculty	Dual Faculty	Guest / Adhoc Faculty	Other University Staff
Depa	artment of Soil &	Water Conservation	on Engineeri	ing	(1) Prof. Bharti (Stat),
01.	Prof. B.W.	Dr. H.W. Awari	Dr. M.S.		(2) Dr. S.S. Kadam
	Bhuibhar		Pendke		(Library Science),
02.	Dr. A.S. Kadale	Dr. S.B. Jadhav	Prof. S.N.		(3) Dr. P.S. Kapse
			Pawar		(Ext. Education),
03.	Dr. A.M.	Dr. V.K. Ingle			(4) Dr. Suresh Waikar
	Kamble				(Soil Science),
04.	Dr. S.D. Payal	Prof. V.M.			(5) Dr. D.S. Perke
	•	Bhosle			(Economics)
05.	Dr. M.R. More	Dr. R.V. Shinde			

6.4.3 Technical and supporting staff

The following posts of technical and supporting staff for field experimentation/

laboratory work/ workshop / farm work are in place at this college.

S. No.	Name of Post	Sanctioned post	Filled post	Vacant post	Faculty recommended by the ICAR regulatory body	Deviation (%)
1	PA/Steno	-	-	-	01	100
2	Clerk	-	-	-	01	100
	Lab Assistant/Sub- overseer (On deputation, 2018-19 to 2021-22)	01	00	01	02	50
4	Peon	-	-	-	01	100

 Table 3 : Technical and supporting staff of Department of Soil and Water Conservation

 Engineering

6.4.4 Classrooms and Laboratories

Department of Soil and Water Conservation Engineering has well developed Ph.D. classroom and well-equipped laboratories. The theory classes are conducted with the help of audio visual aids like K-Yan, LCD projector, etc.

Practical are conducted in laboratories of the department, Field laboratories such as green house structures, run off plot, various surrounding watershed and farms of the research stations are being utilised for the demonstration of practical of Ph.D. courses. Computer laboratory, CAD-CAM laboratory and language laboratory are established in the college with software facilities like ARIS / LAN, A to Z Watershed software, Pro-E, ANSYS, MATLAB and Simulink, GIS and Design Expert and utilised for teaching and research work. Advanced equipments like total survey station, pump test rig, digital hardness test rig, metal composition testing machine, CNC machine, Leaf area meter, water quality kit, Laser leveller, Water activity meter, Low humidity low temperature cabinate dryer, Universal testing machine and compression testing machine are available for practical and demonstration in the departments.

Classrooms

Separate class rooms for Ph.D. programme are established in the Dept. of Soil and Water Conservation Engineering

Laboratories

Table 4 : Details of LaboratoryDepartment of Soil and Water Conservation Engineering

S.	Name of the Laboratory	Length	Breadth	Area	Seating Capacity
No.	Name of the Laboratory	(m)	(m)	(sq.m)	(No. of
					Student)
1	Soil Mechanics Lab.	10.60	11.15	118	40
2	Surveying and hydrology Lab.	14.05	11.05	158	40
3	Soil water Conservation	100	100	10000	40
	Engineering Lab.				
4	Remote Sensing and GIS Lab.	06	05	30	05

Table 5: Details of department wise list of equipments/instruments/implements

Sr.	Name of Equipment
No.	
	Department of Soil and Water Conservation Engineering
1	Bulk density apparatus-core cutters
2	Double ring infiltrometers
3	Falling head permeability test apparatus
4	Sieves shaker for particle size analysis
5	Different evaporation pans
6	Total survey station
7	Flow measuring devices-H flume, parshall flume
8	Flow velocity measurement instruments-current meters
9	Stage level recorders

6.4.5 Conduct of Practical and Hands on Training:

Conduct of Practical

The practical are conducted in the laboratories and field allocated to concern department. The practical are conducted as per the lesson plan by using the requisite instruments and facilities available in the respective laboratories, on farm, workshops, farm ponds, green house and shade net structures. The techniques are demonstrated to the students and actual experiments are performed.

6.4.6 Supervision of students in Ph. D. programme

One supervisor (guide) is allotted to every Ph.D. Student for supervision of research work. The supervisor monitors academic and research activities of students through Student Advisory Committee.

S. No.	Year	Name of Faculty	No of Students
1	2018-19	Prof. B.W. Bhuibhar	01
2	2019-20	Dr. A.S. Kadale	01
		Prof. B.W. Bhuibhar	01
3	2020-21		
4	2021-22	Dr. U.M. Khodke	01
		Prof. B.W. Bhuibhar	01
5	2022-23		

 Table 6 : Details of students allotted for supervision of research work in the Ph.D.

 degree programme (Department of SWCE)

6.4.7 Feedback of stakeholders (Students, parents, industries etc.)

College has well defined feedback mechanism of different stakeholders i.e. students, parents and industries. Real feedback of the students was also collected frequently from the suggestion and complaint box placed near Associate Dean and Principal office. Regular students-parents meeting with college authorities were organized to take feedback from the parents. College authority has taken action as per rules on the issues raised in the feedback of stakeholders.

Student's Feedback Mechanism

- The students are encouraged to give the FEEDBACK in the prescribed form
- Prescribed FEEDBACK form is provided at Education section of the college for registered students and pass out students can download the feedback form from the College Website. Student are submitting the FEEDBACK form to the education section or they drop the feedback form in the suggestion box kept in the office of Associate Dean and Principal.
- Filling the feedback form is voluntary.
- The feedback information received is used to improve the overall standards in the college in developing both academic and non-academic facilities.
- In addition, the Advisors / ADP conducts separate interaction secession's to get students feedback overlay / in writing through feedback form.
- The information provided by the students in the feedback form is kept confidential.

Redressal Mechanism

 The feedback forms are scrutinized and specific suggestions are discussed in the monthly meeting. The suggestions and feedbacks are addressed by the concerned college committee.

- Feedbacks are also discussed in the Board of Study and Academic staff meeting at college level.
- If required, the feedbacks are also will be taken up by in the Faculty Meeting to formulate policies.

Students' Feedback

			Email Id:	1 Seminars	
COLLEGE OF AGRICULTURAL ENGIN	EERING	& TECH	INOLOGY	Special Lectures /Guest Lectures/Virtual	
PARBHANI - 431 40	2 (MS)	VIDTAI	eem,	3 Handson Training/ In-plant Training for	
Phone No: 02452 -223230	Emai	l: adpcaet	pbn@gmail.com	4 Class Presentations/ Projects/ Workbooks	
				5 Use of Teaching Aids and ICT in the Class to Facilitate Teaching	
STUDENTS FEEDBAG	K FROM			6 Multidisciplinary Projects/Live Projects	
(For Registered Stu	dent)			7 Learning Program	
Degree Program: B.Tech. /M.Tech. /Ph.D. (Agricultur	al Engineer	ing)	-	8 Placement Cell Activities 9 NSS / NCC Activities	
Discipline in case of PG Degree : Soil 4 W4-	ter co	Registr	ATION EN	clap Q I College Website	
Year of Admission : 2021-20	I'I TURNA	Semest	er: IV the	2 Class room Infrastructure	
This questionnaire is intended to collect int	ormation r	elating to	o your satisfactio	3 (only for female students)	
towards the curriculum, learning and evaluation. The	e informati	on provid	ied by you will b	4 Drinking water facility 5 Washroom Cleanliness and maintenance	
kept confidential and will be used as important fee	dback for	quality in	nprovement of th	6 Greenery in the college campus	
programme of studies / institution.				7 premises	
Sr. How do you rate the following	Excellent	Very Good	Good Satisfactor	Any other SUGGESTIONS :	
Academic Resources (Faculty)				Require common soffware lab for PC	G-Ph.D
1 Mentoring and Motivating Students for Academic Growth and Development		5	5	studenty. Rekarch facilities on	der
2 Content of Syllabi of the Courses	V	V		Single univelly in campual	
4 Delivery of Content in the Class		~		A.	otes
5 Regularity and Sincerity 6 Subject Expertise	V			Place: Parel in Signature of th	he Student
7 Linking Theory with Examples and Practices		V		Name: MO	tiram Bhe
Accessibility for Interactions Use of Teaching Aids and ICT in the Class to	1/	-		Mobile No: 9	185.537
Facilitate Teaching Encouragement for Out of the Box and	V		1		- / .
10 Innovative Thinking				2	
11 Curricular Activities	V				
12 Over all Learning Experience with the faculty		V			
C. H		Verv			
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Alumni Feedback

COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY VASANTRAO NAIK MARATHWADA KRISHI VIDVAPEETH, PARBHANI – 431 402 (MS) Phone No: 02452 - 223230 Email: adpcaetpbn@gmail.com						COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY VASANTRAO NAIK MARATHWADA KRISHI VIDVAPEETH, PARBHANI – 431 402 (MS) Phone No: 02452 - 223230 Email: adpcaetpbr@gmail.com					
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Sr. No	How would you rate the following	Excellent	Very Good	Good	Satisfactory	Sr. No	How would you rate the following	Excellent	Very Good	Good	Satisfacto
1	How do you rate the courses that you learnt in the college in relation to your current job / occupation		V			1	How do you rate the courses that you learnt in the college in relation to your current job / occupation	V			
2	Admission Process	1				2	Admission Process	V			
3	Faculty	V				3	Faculty	V			
4	Educational Resources		V			4	Educational Resources		V		
5	Library Facilities	V			-	5	Library Facilities	V			
6	Infrastructure and Lab Facilities		V			6	Infrastructure and Lab Facilities		~		
7	Examination Process		V			7	Examination Process	~			
8	Sports Facility	V				8	Sports Facility		~		
9	Overall Rating	V				9	Overall Rating	~			
Plea Plac Date	se proved your valuante suggestions for in leq 4385Soft Foodsela Jude rSingle. umbre e: Parbhani	6 USE	5 9(] 5 9(] Sig	q(] ph.t nature	depart 2- Pgs- grang. Hram 6h	Pleas Place Date	e provide your valuable suggestions for m 	provement o	i ine institi Sig Nar	nature Z	The R.T

6.4.8. Student intake and attrition in the programme for last five years

Table 7. Student admitted and attribut in Th.D. programme in fast five years
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Name of	me of Students admitted					Attrition (%)						
the Degree Programme Ph. D.	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23		
Soil and	01	02	-	02	-	-	50	-	50	-		
Water	1M	2M		2M								
Conservation												
Engineering												

Table 8: Students intake and attrition Ph. D. degree programme

		Ph	. D.		
Batch	Stud adm	lents itted	Droj	pped	
	Μ	M F		F	
	No.	No.	No.	No.	
2018-19	01	00	00	00	
2019-20	02	00	01	00	
2020-21	00	00	00	00	
2021-22	02	00	01	00	
2022-23	00	00	00	00	

Sr. No.	Year	No. of Ph.D. students
1	2018-19	-
2	2019-20	-
3	2020-21	02
4	2021-22	01
5	2022-23	01

Table 9 : Students Pass out (Ph.D. degree programme)

6.4.9 ICT Application in Curricula Delivery

The PG classrooms are equipped with LCD projectors for power point presentations. Following ICT tools are used in PG classrooms and laboratories for teaching and conducting practical of PG courses.

- 1. Desktop and Laptop
- 3. Interactive White Board
- 5. Simple-Projector
- 7. Digital Camera
- 9. Wireless Microphone for Convenience

- 2. Document Camera/Visualize
- 4. Interactive Projector- Kayon
- 6. Speakers
- 8. Printer
- 10. Digital Podium

Certificate

I, Dr. U. M. Khodke, **Dean**, College of Agricultural Engineering & Technology, Parbhani hereby certify that the information contained in Section 6.4 (Section 6.4.1 to 6.4.9) are furnished as per the records available in the college and degree awarding University.

(U.M. Khodke) Dean

Date:

Seal:

Doctor of Philosophy (Agricultural Engineering) in 3) Processing and Food Engineering

6.4 Self Study Report of Ph. D. programmes

6.4.1 Brief history of Ph.D. programmes

In 2013-14, Ph.D. (Agri. Engg.) degree programme in Processing and Food Engineering with intake capacity of two students as per MCAER decision No. 21/88/2013 of order No. MCAER/EST-5/ACM-2113/1649/2013 has been started.

The existing contents of Ph.D level syllabus were examined critically, restructured and updated keeping in view the latest developments in the subject areas.

Mission and Goals, Mandate of the College, Mission Statement, Goals and Objectives are same as given in department of Irrigation & Drainage Engineering.

Table 1: Ph.D. (Agril. Engg.) degree programmes offered with duration.

Ph.D. (Agril. Engg.) degree programmes offered with duration								
Ph. D.	Processing and Food Engineering	2013-2014	3 Year					
(Agril.			(6 Sem.)					
Engg.)								

Salient features of organization of course contents and credit requirements:

<u>Code Numbers, Course Contents</u>, Major Courses, Minor Courses, Supporting Courses And Non-Credit Compulsory Courses Are Same As Given In Department Of Irrigation & Drainage Engineering.

6.4.2. Faculty Strength

For smooth conduct of Ph.D. degree programme, in addition to the faculty members at College of Agricultural Engineering and Technology, services of faculties of Agricultural Engineering working under various establishment in the campus such as Agriculture Colleges and research stations of the University are being engaged for course work and research work.

For fulfilling the requirements of supporting special and non credit compulsory courses of Ph.D. programme, common arrangements are made at the University level.

Sr. No.	Post	Sanc. post	Filled Post	Vacant	Faculty Recommen ded by the ICAR regulatory body	Devia tion (%)	Remarks
01.	Professor	0	0	0	1	100	Services of Teaching
02.	Associate Professor	1	1	0	2	50	Staff from Agriculture, the
03.	Assistant Professor	2	2	0	3	33	research project such as AICRP on UAE, Dept. of REE & BSCT are spared and deputed to support the teaching and research activities at CAET.

Table 2 : Faculty position :	Department of	of Processing and	Food Engineering
v 1		8	8 8

Maior	/ Minor	/ Dual /	Guest /	Adhoc	Faculty fo	r Different	Denartments:
wiajui .		/ Dual /	Guest /	Aunoc	Faculty 10	Different	Departments.

Sr. No.	Major Faculty	Minor Faculty	Dual Faculty	Guest / Adhoc Faculty	Other University Staff
Processing and Food Engineering					(1) Prof. Bharti (Stat),
01.	Dr. S.U. Khodke	Dr. R.T.	Dr. R.V.		(2) Dr. S.S. Kadam
		Ramteke	Jayabhaye		(Library Science),
02.	Dr. P.G. More	Dr. S.N. Solanki			(3) Dr. P.S. Kapse
03.	Dr. S.R. Garud	Prof. V.M.			(Ext. Education),
		Bhosle			(4) Dr. Suresh Waikar
04.	Prof. B.P.	Dr. R.V. Shinde			(Soil Science),
	Sawant				(5) Dr. D.S. Perke
					(Economics)

6.4.3 Technical and supporting staff

The following posts of technical and supporting staff for field experimentation/ laboratory work/ workshop / farm work are in place at this college.

Table 3 : Technical and supporting staff of Department of PFE.

S. No.	Name of Post	Sanctioned post	Filled post	Vacant post	Faculty recommended by the ICAR regulatory	Deviation (%)
					body	
1	PA/Steno	-	-	-	01	100
2	Clerk	-	-	-	01	100
3	Lab Assistant	01	01	_	02	50

4	Lab Attendant	-	-	-	-	-
5	Peon	-	-	-	01	100

6.4.4 Classrooms and Laboratories

Each department of college Processing & Food Engineering has well developed Ph. D. classroom and well-equipped laboratories. The theory classes are conducted with the help of audio visual aids like K-Yan, LCD projector, etc.

Practical are conducted in laboratories of the department, workshop and ELP unit. Field laboratories such as solar energy park and farms of the research stations are being utilised for the demonstration of practical. Computer laboratory, CAD-CAM laboratory and language laboratory are established in the college with software facilities like ARIS / LAN, Pro-E, ANSYS, MATLAB and Simulink, GIS and Design Expert and utilised for teaching and research work. Advanced equipments like digital hardness test rig, water quality kit, Texture Analyser, Bakery Unit, Hunter Colour Lab Meter, Water activity meter, Extruder, Electrically operated roaster, LpG operated puffing cum popping machine, Distillation Unit, Low humidity low temperature cabinet dryer are available for practical and demonstration in the respective departments.

PG Classrooms

Separate class rooms for Ph.D. programme are established in the Dept. of Processing and Food Engineering.

Laboratories

Table 4 : Details of Laboratory Department of Processing and Food Engineering

S.	Name of the Laboratory	Length	Breadth	Area	Seating Capacity
No.	Name of the Laboratory	(m)	(m)	(sq.m)	(No. of
					Student)
1	Crop Processing Engg. Lab.	11.28	14.32	162	40
2	Food Engineering Lab.	8.7	7.4	64	10
3	Quality control (ELP) Lab.	12.20	10.80	132	05
Sr.	Name of Equipment				
-----	--				
No.					
	Department of Processing and Food Engineering				
1	Texture analyzer				
2	Apparatus for angle of repose, anemometer,				
3	Apparatus for measurement of properties of milk, cream separator				
4	Autoclave				
5	Mini Dal Mil				
6	Refrigeration and freezing tutor				
7	Parallel and counter heat exchanger				
8	Soxhlet apparatus, Kzeldol apparatus				
9	Infrared Moisture meter				
10	Flour Mill				
11	Mixer cum pulper				
12	Models of handling equipments and Boilers				
13	Vibration and drop tester, Box compression tester,				
14	Spray dryer				
15	Orbital shaking incubator				
16	Horizontal laminar air flow cabinet				
17	Bakery Unit				
18	Water activity meter				
19	Hunter Lab colouri meter				
20	Extruder				
21	Multi grain roster cum puffer				

Table 5 : Details of department wise list of equipments/instruments/implements

6.4.5 Conduct of Practical and Hands on Training:

Conduct of Practical

The practical and hands on training are conducted in the laboratories of respective department and field allocated to concern department.

The practical are conducted as per the lesson plan by using the requisite instruments and facilities available in the respective laboratories, on farm, workshops, ELP unit, solar energy park. The techniques are demonstrated to the students and performed actual experiments are performed.



Ph.D. Student performing practical on microbial analysis



Ph.D. student working on semi-automatic multigrain popping cum puffing unit

6.4.6 Supervision of students in Ph. D. programme

One supervisor (guide) is allotted to every Ph.D. Student for supervision of research work. The supervisor monitors academic and research activities of students through Student Advisory Committee.

S.	Year	No of
No.		Students
1	2018-19	01
2	2019-20	-
3	2020-21	01
4	2021-22	01
5	2022-23	01

 Table 6 : Details of students allotted for supervision of research work in the Ph.D.

 degree programme

Table 7 : Details of students	allotted for	supervision	of research	work in	the	Ph.D.
degree programme (Department	of PFE)				

S. No.	Year	Name of Faculty	No of
			Students
1	2018-19	Dr. S.U. Khodke	01
2	2019-20	Dr. S.U. Khodke	
3	2020-21	Dr. S.U. Khodke	01
4	2021-22	Dr. S.U. Khodke	01
5	2022-23	Dr.R.V. Jaybhaye	01

6.4.7 Feedback of stakeholders (Students, parents, industries etc.)

College has well defined feedback mechanism of different stakeholders i.e. students, parents and industries. Real feedback of the students was also collected frequently from the suggestion and complaint box placed near Associate Dean and Principal office. Regular students-parents meeting with college authorities were organized to take feedback from the parents. College authority has taken action as per rules on the issues raised in the feedback of stakeholders.

Student's Feedback Mechanism

- The students are encouraged to give the FEEDBACK in the prescribed form
- Prescribed FEEDBACK form is provided at Education section of the college for registered students and pass out students can download the feedback form from the College Website. Student are submitting the FEEDBACK form to the education section or they drop the feedback form in the suggestion box kept in the office of Associate Dean and Principal.
- Filling the feedback form is voluntary.
- The feedback information received is used to improve the overall standards in the college in developing both academic and non-academic facilities.

- In addition the Advisors / ADP conducts separate interaction secession's to get students feedback overlay / in writing through feedback form.
- The information provided by the students in the feedback form is kept confidential.

Redressal Mechanism

- The feedback forms are scrutinized and specific suggestions are discussed in the monthly meeting. The suggestions and feedbacks are addressed by the concerned college committee.
- Feedbacks are also discussed in the Board of Study and Academic staff meeting at college level.
- If required, the feedbacks are also will be taken up by in the Faculty Meeting to formulate policies.

Students' Feedback

COLLEGE OF AGRICULTURAL ENCINE VASANTRAD NAIK MARATIWADA H PARBILANI - 431 402 hone No: 02452 -223230 SILIDENTS FEEDRACK (For Registered Stude egree Program: Ph.D. (Agricultural Engineering) iscipline in case of Ph.D. Degree : Pa to to Sing a ame of the Student : Rup and doar H + D - ear of Admission : 2021. This questionnaire is intended to collect inforn wards the curriculum, learning and evaluation. The is ept confidential and will be used as important feedby ogramme of studies / institution.	ERING & KRISHI V (MS) Email CFROM ent) CAD Fo mation r informatio	& TECI VIDYA : adpead : adpead Regist Semes	etpbn@gmail.com	1 Seminars N 2 Special Lectures / Guest Lectures / Virtual Lectures Indiana for training / In-plant Training for Academic Enhancement 4 Class Presentations/ Projects/ Workbooks V 5 Use of Teaching Aids and ICT in the Class to Facilitate Teaching Facilitate Teaching		•	
VASANTRAO NAIK MARATHWADA E PARBHANI - 431 4021 me No: 02452 - 223230 <u> STUDENTS FEEDBACK</u> (For Registered Studer gree Program: Ph.D. (Agricultural Engineering.) cipline in case of Ph.D. Degree : ft p 0.2.5.5 (M or me of the Student : Rup α.n q.o ar H · D · a ar of Admission : $2 \circ 2.1$. This questionnaire is intended to collect infor ards the curriculum, learning and evaluation. The is to confidential and will be used as important feedbu gramme of studies / institution.	KRISHI (MS) Email (<i>FROM</i> ent) and fo mation r informatio	ed E Regist	PEETH,	Seeminars / Guest Lectures / Virtual Special Lectures / Guest Lectures / Virtual Lectures Handson Training/ In-plant Training for Academic Enhancement 4 Class Presentations/ Projects/ Workbooks View of Teaching Aids and ICT in the Class to Facilitate Teaching Academic Teaching Aids and ICT in the Class to Facilitate Teaching			
PARBIIANI - 431 402 (ine No: 02452 -223230 <u>STUDENTS FEEDBACK</u> (For Registered Studer gree Program: Ph.D. (Agricultural Engineering) cipline in case of Ph.D. Degree : مع مع مع مع مع مع مع مع ne of the Student : ومد مع مع مع مع مع مع مع مع مع ne of the Student : ومد مع مع the distinguistic in the student of the collect infor ards the curriculum. learning and evaluation. The is at confidential and will be used as important feedby gramme of studies / institution.	(MS) Email <u>FROM</u> ent) and fo , mation r informatio	adpead ad E Regist Semes	etpbn@gmail.com	2 Operatin Tectures 3 Handson Training/In-plant Training for Academic Enhancement 4 Class Presentations? Projects/ Workbooks 5 Use of Teaching Aids and ICT in the Class to Facilitate Teaching		•	
ne No: 02452 -223230 <u>STUDENTS FEEDBACK</u> (For Registered Studer gree Program: Ph.D. (Agricultural Engineering) cipline in case of Ph.D. Degree: $P_{0} CQSS inj \approx$ ne of the Student : $Rucp \alpha_{n}q_{u} a_{w} + H \cdot D$, or of Admission : $2 \sim 2.4$. This questionnaire is intended to collect infor mash the curriculum, learning and evaluation. The is at confidential and will be used as important feedby gramme of studies / institution.	Email EROM ent) and fo mation r	ed E Regist Semes	etpbn@gmail.com	3 Handson Training/ In-plant Training for Academic Enhancement 4 Class Presentations' Projects' Workbooks 5 Use of Teaching Aids and ICT in the Class to Facilitate Teaching			
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<u>STUDENTS FEEDBACK</u> (For Registered Studer ree Program: Ph.D. (Agricultural Engineering) cipline in case of Ph.D. Degree : $f_{2} \text{ DCGSSing}$ a ne of the Student : $\text{Rup}_{an}\text{ QUar}$ $H \cdot D$, or of Admission : $2 \circ 2 \cdot 2$. This questionnaire is intended to collect infon ards the curriculum, learning and evaluation. The it t confidential and will be used as important feedby gramme of studies / institution.	rmation r	od E Regist Semes		4 Class Presentations/ Projects/ Workbooks 5 Use of Teaching Aids and ICT in the Class to Facilitate Teaching	~		
<u>STUDENTS FEEDBACK</u> (For Registered Stude ree Program: Ph.D. (Agricultural Engineering) cipline in case of Ph.D. Degree: $\frac{1}{10} \exp(2SI) \alpha_{2}$ ane of the Student : $\frac{1}{100} \exp(\alpha_{2} \alpha_{1} + \frac{1}{100} \alpha_{2} $	rmation r	Regist Semes	t as los	5 Facilitate Teaching	~		
(For Registered Stude ree Program: Ph.D. (Agricultural Engineering.) cipline in case of Ph.D. Degree : ft pcc_SSig a me of the Student : Rup α.n q.ωαγ H. D. , or of Admission : >ο2.1 This questionnaire is intended to collect inforn ards the curriculum, learning and evaluation. The in t confidential and will be used as important feedbu gramme of studies / institution.	ent) 201 fo rmation r	od E Regist Semes	.)	Tuennale Teaching			
the registeries and ree Program: Ph.D. (Agricultural Engineering) cipline in case of Ph.D. Degree: $f_{PDCLSSIG} \approx$ ne of the Student: $Q_{PDC} \alpha_{POC} + H \cdot D \cdot$ or of Admission: $2 \sim 2.4$. This questionnaire is intended to collect infon ards the curriculum, learning and evaluation. The is at confidential and will be used as important feedby gramme of studies / institution.	rmation r	od E Regist Semes	al an log	6 Multidisciplinary Projects/ Live Projects	V		
ree Program: Ph.D. (Aprecultural Engineering) cipline in case of Ph.D. Degree: Processing α neof the Student: Qup α.η quo α + H.D r of Admission: 202.1 This questionnaire is intended to collect infor ands the curriculum, learning and evaluation. The in t confidential and will be used as important feedba gramme of studies / institution.	rmation r	Regist Semes	al an los	7 Industrial Attachment and Experiential	~	2	
eipline in case of Ph.D. Degree : f_{2} pc2.55/03 a me of the Student : $Rup \alpha_{D} \alpha_{M} \alpha_{M} + \frac{1}{2}$, ar of Admission : $2 \sim 2.1$. This questionnaire is intended to collect infon- vards the curriculum, learning and evaluation. The in- st confidential and will be used as important feedbu- gramme of studies / institution.	rmation r	Regist Semes		Learning Program		-	
me of the Student: Rup $\alpha_n q_{\omega} \alpha_{\omega'} + h \cdot \hat{\omega}_{\omega'}$ ar of Admission: $2 - 2 - 2 - 1$ This questionnaire is intended to collect infon auch the curriculum. Iscarning and evaluation. The is of confidential and will be used as important feedbu- gramme of studies / institution.	rmation r	Regist	ngineeng	8 Placement Cell Activities	- 14	-	12
ar of Admission: 202.1. This questionnaire is intended to collect infon vards the curriculum, learning and evaluation. The is t confidential and will be used as important feedbu gramme of studies / institution.	rmation r informatio	Semes	tration No. : 2020	Infrastructural Facilities			1
This questionnaire is intended to collect infon wards the curriculum, learning and evaluation. The i ot confidential and will be used as important feedba gramme of studies / institution.	rmation r informatio		ster: VIL	1 College Website		~	
This questionnaire is intended to collect infor wards the curriculum, learning and evaluation. The i ot confidential and will be used as important feedba gramme of studies / institution.	rmation r informatio			2 Class room Infrastructure			
vards the curriculum, learning and evaluation. The i pt confidential and will be used as important feedb ogramme of studies / institution.	informatio	elating	to your satisfaction	3 Girls Common Room		-	-
pt confidential and will be used as important feedbo ogramme of studies / institution.		on prov	ided by you will be	4 Drinking water facility	-	-	
ogramme of studies / institution.	back for a	quality	improvement of the	5 Washroom Cleanliness and maintenance		V	
C II				6 Greenery in the college campus	V		
The second		Ver		7 Cleanliness and maintenance of college	/		
Sr. now do you rate the following	Excellent	Good	GoodSatisfactory	premises			
Academic Resources (Faculty)				an ather SUCCESTIONS			
Mentoring and Motivating Students for	/			ny other SUGGESTIONS:			
Academic Growth and Development	~			FARNIAL SPECIALZED CA	Neen.	cour	secting.
2 Content of Syllabi of the Courses	V						<u> </u>
3 Extent of Syllabi covered in the Class	5						
Delivery of Content in the Class Regularity and Sincerity	-						
6 Subject Expertise		V				00	8
7 Linking Theory with Examples and Practices	V			0 11 9		Stit	
8 Accessibility for Interactions	V	_		ace: Farbham	Signa	iture of t	the Student
9 Use of Teaching Aids and ICT in the Class to		~			Name	: Ruf	panqwar
Encouragement for Out of the Box and					Mobi	le No:	9766002
10 Innovative Thinking		~					
11 Encouragement for Co-Curricular and Extra- Curricular Activities	~						
12 Over all Learning Experience with the faculty	~						
Sr. How do you rate the following	Excellent	Very	Good Satisfactory				
		Good					
MKV: Accreditation Report 2018-2023	2 - 2 1 0 1 A 40 - 10 A	-	Page 20	MKV: Accreditation Report 2018-2023			Page 21
the port 2010 2025			Tage 10	Anternet culture in Report 2010 2020			
Ph.D. (Arricultural Engineering) Parbhani				Ph.D. (Assignitural Engineering) Parbhani			
and following and sufficiently a second				and following an engineering a second		_	
			Email M:	Academic Activities			
COLLEGE OF AGRICULTURAL ENGINE	ERING -	& TEC	HNOLOGY C			-	1
VASANTRAO NAIK MARATHWADA K	(MO)	- 101 A	a manual di sug	A Keminen	1.1		
PARBITANT - 431 4074	2.00.00			1 Seminars Special Lectures/Guest Lectures/Virtual	- 12		

STUDENTS FEEDRACK FROM

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the programme of studies *i* institution.

34	How do you rate the following	Excelles	Gees	G	Satisfactor
Ae	ademic Resources (Faculty)				
1	Mentoring and Motivating Students for Academic Growth and Development		~		
2	Content of Syllabi of the Courses			1	
3	Extent of Syllabi covered in the Class				
4	Delivery of Content in the Class				1
5	Regularity and Sincerity	~			
6	Subject Expertise				
7	Linking Theory with Examples and Practices		V		
8	Accessibility for Interactions				
9	Use of Teaching Aids and ICT in the Class to Facilitate Teaching		~		
10	Encouragement for Out of the Box and Inpovative Thinking		\checkmark		
	Encouragement for Co-Curricular and Extra- Curricular Activities		~		
12	Over all Learning Experience with the faculty	\checkmark			
54.	How do you rate the following	Excellent	Very Good	Good	Satisfactory

ī	Seminars		V		
2	Special Lectures /Guest Lectures/Virtual Lectures			~	
3	Handson Training/ In-plant Training for Academic Enhancement			~	
ï	Class Presentations/ Projects/ Workbooks		~	-	
5	Use of Teaching Aids and ICT in the Class to Facilitate Teaching			~	
6	Multidisciplinary Projects/ Live Projects			~	
,	Industrial Attachment and Experiential Learning Program			1	
5	Placement Cell Activities				~
9	NSS / NCC Activities				
i.	frastructural Facilities				
Ē	College Website			~	
ĩ	Class noom Infrastructure				
,	Girls Common Room (only for female students)			· .	~
4	Drinking water facility	~	*		
5	Washroom Cleanliness and maintenance			\sim	
	Greenery in the college campus				
6	Closeliness and maintenance of college	1			

Place: pasbhani

VNMKV: Accreditation Report 2018-2023

Signation of the Student Name: Shalasta, S. kalaannunka Mobile No: 8208875703

Page 28

Alumni Feedback



Place: microbiology cabrotary also meeded. Date: Signature

Signature And Name: Shubhargi Thake Contact No: 7057630816

Parents' Feedback

COLLEGE OF AGRICULTUR VASANTRAO NAIK MARA PARBHAN	AL ENGINEERING & TECHNOLOGY ATHWADA KRISHI VIDYAPEETH, NI – 431 402 (MS)
Phone No: 02452 -223230	Email: adpcaetpbn@gmail.com
PARENT'S F	EEDBACKFORM
 Name of the parent and relation with Name of students with Reg. No. Do Address of the parent: <u>Alphing</u> 	th student: Rupanawa Datlatroy R. gree Prog.: Rupanawar H.>, 2020 AC EKShiv, Tal: - malphing pin: - 413/09
 4. Name of Student's Adviser:	of ward about his/her academic progress and the appropriate) : Excellent / Very good / Good / Satisfactory : Excellent / Very good / Good / : Excellent / Very good / Good / thehostel: Excellent / Very good / Good / Satisfactory y / Non - Satisfactory lege / hostel/ classes / teaching / practical / t not covered above:
9. Parent'ssuggestion for improvement	
	Signature of parent Contact No <u>J9-6-0-1647</u> 26

Ph.D. (Agricultural Engineering) Parbhani COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI - 431 402 (MS) Email: adpcaetpbn@gmail.com Phone No: 02452 -223230 PARENT'S FEEDBACK FORM 1. Name of the parent and relation with student: Kelempurikar S.R. Name of students with Reg. No. Degree Prog.: S. S. Koloronuniber (2021AE103P)
 Address of the parent: A. S. Bhagyunager (corregion crease), for bhani 5. Purpose of visit: -----6. Do you get periodical information of ward about his/her academic progress and attendance: Yes / No 7. Feedback/ comments of parent:(tick the appropriate) : Excellent / Very good / Good / Satisfactory Ward's Security : Excellent / Very good / Good / Satisfactory Co-operation from faculty : Excellent / Very good / Good / Administrative support Satisfactory Process of ward's leaving/ joining the hostel: Excellent / Very good / Good / Satisfactory Present Fees structure: Satisfactory / Non - Satisfactory 8. Parent's general opinion about to college / hostel/ classes / teaching / practical / student's progress or any other point not covered above: ------_____ Parent's suggestion for improvement student for coreer Help campus interview, Organize dillocat Signature of parent Contact No. 9096368538 VNMKV: Accreditation Report 2018-2023 Page 22

S. No	Name of Farmer	Mode of	Date	Concern	Action taken
1	Amol Harkal	Personal visit	26/12/2018	Enquiry regarding process technology popped and puffed products	Information regarding electrically operated multigrain popping cum puffing machine was given.
2	Sanjay Hatwar	Personal visit	04/01/2020	Enquiry for popping/ puffing of grain.	Information regarding popping/puffing machinery was given.
3	Dr. D. S. Bhawar	Personal visit	14/01/2020	Enquiry regarding processing machinery suitable for women.	Information of suitable processing technologies for start-ups for women was given.
4	Yogita Khandebh arad	Personal visit	22/03/2020	Electrically operated roaster for popping of multigrain	Information of roaster was given.
5	Dr. Kanhaiya Kadam	Personal visit	20/10/2021	Enquiry new industries based on agricultural produce.	Technology support for new industries based on agricultural produce was given.
6	Vijay Jadhav	Personal visit	26/06/2022	Multigrain roaster	Information regarding roaster was given.
7	Avinash Tidke	Personal visit	27/09/2022	Processing of multigrain	Information was given regarding machinery available for popping/ puffing of multigrain.
8	Mahesh Mohagaon kar, Basmat	Visit to Manufacturers plant at Basmat	02/08/2022	Turmeric boiler mountings and accessories related	Guided about usage of certified mounting and accessories.
9	Tanpure,	In person visit to	16/09/2022	Turmeric	Helping in design of

	Padmati boilers Basmat	the Department		boiler capacity related issues	advance boilers
10	Madhav Barse, Malegaon	In person visit to the Department	29/07/2022	Turmeric boiler certificatio n issue	Given information of boiler regulating Government agency

6.4.8. Student intake and attrition in the programme for last five years

Name of		Stud	ents adm	itted	Attrition (%)					
the Degree Programme Ph. D.	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23
Processing and Food Engineering	01 1F	-	01 1M	01 1F	01 1F	100	-	-	-	-

Table 9: Student admitted and attrition in Ph.D. programme in last five years

Table 10: Students intake and attrition

	Ph. D.					
Batch	Students admitted		Droj	Dropped		
	Μ	F	Μ	F		
	No.	No.	No.	No.		
2018-19	00	01	00	01		
2019-20	-	-	-	-		
2020-21	01	00	00	00		
2021-22	00	01	00	00		
2022-23	00	01	00	00		

Table 11 : Students Pass out

Sr. No.	Year	No. of Ph.D. students
1	2018-19	01
2	2019-20	02
3	2020-21	02
4	2021-22	-
5	2022-23	-

6.4.9 ICT Application in Curricula Delivery

The PG classrooms are equipped with LCD projectors for power point presentations. Following ICT tools are used in PG classrooms and laboratories for teaching and conducting practical of PG courses.

- 1. Desktop and Laptop
- 3. Interactive White Board
- 5. Simple-Projector
- 7. Digital Camera
- 9. Wireless Microphone for Convenience

- 2. Document Camera/Visualize
- 4. Interactive Projector- Kayon
- 6. Speakers
- 8. Printer
- 10. Digital Podium

Certificate

I, Dr. U. M. Khodke, **Dean**, College of Agricultural Engineering & Technology, Parbhani hereby certify that the information contained in Section 6.4 (Section 6.4.1 to 6.4.9) are furnished as per the records available in the college and degree awarding University.

(U.M. Khodke) Dean

Date:

Seal:

Doctor of Philosophy (Agricultural Engineering) in 4) Farm Machinery and Power Engineering

6.4 Self Study Report of Ph. D. programmes

6.4.1 Brief history of Ph.D. programmes

In 2013-14, Ph.D. (Agri. Engg.) degree programme in Farm Machinery and Power Engineering with intake capacity of two students as per MCAER decision No. 21/88/2013 of order No. MCAER/EST-5/ACM-2113/1649/2013.

The existing contents of Ph.D. level syllabus were examined critically, restructured and updated keeping in view the latest developments in the subject areas.

Mission and Goals, Mandate of the College, Mission Statement, Goals and Objectives are same as given in department of Irrigation & Drainage Engineering.

Гаble 1: Ph.D. (Agril. Engg.) degree programmes	offered with duration
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Ph.D. (Agril. Engg.) degree programmes offered with duration					
Ph. D. (Agril. Engg.)	Farm Machinery and Power Engineering	2013-2014	3 Year (6 Sem.)		

Salient features of organization of course contents and credit requirements:

<u>Code Numbers, Course Contents</u>, Major courses, Minor courses, supporting courses and Non-Credit Compulsory courses are same as given in department of Irrigation & Drainage Engineering.

6.4.2 Faculty Strength

For smooth conduct of Ph.D. degree programme, in addition to the faculty members at College of Agricultural Engineering and Technology, services of faculties of Agricultural Engineering working under various establishment in the campus such as Agriculture Colleges and research stations of the University are being engaged for course work and research work.

For fulfilling the requirements of supporting special and non credit compulsory courses of Ph.D. programme, common arrangements are made at the University level. Available faculty is utilised for multiple programme

Sr. No.	Post	Sanc. post	Filled Post	Vacant	Faculty Recommen ded by the ICAR regulatory body	Devia tion (%)	Remarks
01.	Professor	0	0	0	1	100	Services of Teaching
02.	Associate	1	1	0	2	50	Staff from
	Professor						Agriculture, the
03.	Assistant	3	3	0	3	33	research project such
	Professor						as AICRP on UAE,
							Dept. of REE &
							BSCT are spared and
							deputed to support the
							teaching and research
							activities at CAET.

Fable 2 : Faculty positior	: Department of Far	n Machinery and	Power Engineering
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Maior /	/ Minor	/ Dual /	Guest /	/ Adhoc	Faculty	for	Different	Departments:
major /	TATIO	/ Dual /	Guest	runoc	1 acuity	101	Different	Departments.

Sr. No.	Major Faculty	Minor Faculty	Dual Faculty	Guest/ Adhoc Faculty	Other University Staff
Farm Machinery and Power Engineering					(1) Prof. Bharti (Stat),
01.	Dr. S.N. Solanki	Dr. R.T. Ramteke			(2) Dr. S.S. Kadam
02.	Dr. P.A. Munde	Prof. V.M. Bhosle			(Library Science),
03.	Dr. G.U. Shinde	Dr. R.V. Shinde			(3) Dr. P.S. Kapse
04.	Prof. D.V. Patil				(Ext. Education),
					(4) Dr. Suresh Waikar
					(Soil Science),
					(5) Dr. D.S. Perke
					(Economics)

6.4.3 Technical and supporting staff

The following posts of technical and supporting staff for field experimentation/

laboratory work/ workshop / farm work are in place at this college.

Table 3 : Technical and supporting staff of Department of Farm Machinery and Power Engineering

S. No.	Name of Post	Sanctioned post	Filled post	Vacant post	Faculty recommended by the ICAR regulatory body	Deviation (%)
1	Senior Research Assistant	01	00	01	-	
2	Lab Assistant	-	-	-	02	100
3	Lab Attendant	02	02	-	-	

4	Sr. Mechanic	01	01	-	-	
5	Driver	01	-	01	01	00
6	Peon	-	-	-	01	100
7	PA/Steno	-	-	-	01	100
8	Clerk	-	-	-	01	100

6.4.4 Classrooms and Laboratories

Department of Farm Machinery and Power Engineering has well developed Ph.D. classroom and well-equipped laboratories. The theory classes are conducted with the help of audio-visual aids like K-Yan, LCD projector, etc.

Practical are conducted in laboratories of the respective department, Field laboratories such as solar energy park, Animal Energy Park and farms of the research stations are being utilised for the demonstration of practical of Ph.D. courses. Computer laboratory, CAD-CAM laboratory are established in the college with software facilities like ARIS / LAN, Pro-E, ANSYS, MATLAB and Simulink, GIS and Design Expert and utilised for teaching and research work. Advanced equipments like IC engine test rig, digital hardness test rig, metal composition testing machine, CNC machine, engine test rig, Laser leveller, Workshop, Draftability Lab, Animal Drawn Agro Processing Unit are available for practical and demonstration in the departments.

Ph.D. Classrooms

Separate class rooms for Ph.D. programme are established in Dept. of Farm Machinery and Power Engineering.

S.	Name of the Laboratory	Length	Breadth	Area	Seating Capacity
No.		(m)	(m)	(sq.m)	(No. of
					Student)
1	Workshop	10.60	21.80	231	40
2	Farm Power	11.15	21.40	239	40
3	Engineering Drawing Hall	11.15	18.80	198	40
4	Implement Shed	16.50	29.60	488	40
5	Exhibition Hall	10.60	22.00	233	40
6	CAD – CAM Lab	06.00	15.00	90	40
7	Drawing Hall	11.15	17.80	198	40

Laboratories

Table 4 : Details of Laboratory Department of Farm Machinery and Power Engineering

Sr.	Name of Equipment
No.	
	Department of Farm Machinery and Power Engineering
1	Tractor 50 hp-2 ; 25 hp-1 and 40 hp-3
2	Power Tiller, Reaper
3	Lathe Machine, CNC Machine, Shaper Machine, welding machine
4	Grinder
5	Tool kits with box (Ellen key set, Open end spanner set, Pliers, Nose pliers, Circlip
	pliers)
6	Cut sections of Tractor, Single and Multi cylinder engine, Air cleaner, Gear box,
	Differential, Battery, Fuel injection pump
7	Models of Electrical system, Lubrication system, Cooling system, Tractor hydraulic
	system
8	Mould board plough, Sub-soiler, Rotary tiller, Cultivator, Seed-cum fertilizer, drill
	Inclined plate planter, Vertical conveying reaper, Potato digger
9	Laser leveller
10	Set of animal drawn implements: disc harrow and cultivator
11	Potato planter, Sugarcane cutter planter
12	Knap sack sprayer
13	Wheat thresher, Paddy thresher, Multi crop thresher
14	Standard disc plough, Mould board
15	In addition, the equipment / machines available under farm machinery Testing centre
	are used for practical of Ph.D students.

Table 5 : Details of department wise list of equipments/instruments/implements

6.4.5 Conduct of Practical:

Conduct of Practical

The practical and hands on training are conducted in the laboratories in the department and field allocated to department.

The practical are conducted as per the lesson plan by using the requisite instruments and facilities available in the respective laboratories, on farm, workshops, solar energy park and animal energy park. The techniques are demonstrated to the students and performed actual experiments are performed.

6.4.6 Supervision of students in Ph. D. programme

One supervisor (guide) is allotted to every Ph.D. Student for supervision of research work. Supervisor monitors academic and research activities of students through Student Advisory Committee.

S.	Year	No of
No.		Students
1	2018-19	
2	2019-20	
3	2020-21	
4	2021-22	01
5	2022-23	02

 Table 6 : Details of students allotted for supervision of research work in the Ph.D.

 degree programme

Table 7: Details of students allotted for supervision of research work in the Ph.D. degree programme (Department of FMPE)

S. No.	Year	Name of Faculty	No of Students
1	2018-19		
2	2019-20		
3	2020-21		
4	2021-22	Dr. S.N. Solanki	01
5	2022-23	Dr. Indra Mani	02

6.4.7 Feedback of stakeholders (Students, parents, industries etc.)

College has well defined feedback mechanism of different stakeholders i.e. students, parents and industries. Real feedback of the students was also collected frequently from the suggestion and complaint box placed near Associate Dean and Principal office. Regular students-parents meeting with college authorities were organized to take feedback from the parents. College authority has taken action as per rules on the issues raised in the feedback of stakeholders.

Student's Feedback Mechanism

- The students are encouraged to give the FEEDBACK in the prescribed form
- Prescribed FEEDBACK form is provided at Education section of the college for registered students and pass out students can download the feedback form from the College Website. Student are submitting the FEEDBACK form to the education section or they drop the feedback form in the suggestion box kept in the office of Associate Dean and Principal.
- Filling the feedback form is voluntary.
- The feedback information received is used to improve the overall standards in the

college in developing both academic and non-academic facilities.

- In addition the Advisors / ADP conducts separate interaction secession's to get students feedback overlay / in writing through feedback form.
- The information provided by the students in the feedback form is kept confidential.

Redressal Mechanism

- The feedback forms are scrutinized and specific suggestions are discussed in the monthly meeting. The suggestions and feedbacks are addressed by the concerned college committee.
- Feedbacks are also discussed in the Board of Study and Academic staff meeting at college level.
- If required, the feedbacks are also will be taken up by in the Faculty Meeting to formulate policies.

Students' Feedback

	and the second								
COLLEGE OF AGRICULTURAL ENGIN	EERING &	& TECH	Email Id: INOLOGY	1	Seminars Special Lectures /Guest Lectures/Virtual	~			
VASANTRAO NAIK MARATHWADA PARRHANI - 431 40	KRISHI V	VIDYAP	PEETH,	2	Lectures	V			
Гариалт 55 м	2 (003)		1 Charles Income	3	Academic Enhancement	V			
Phone No: 02452 -223230	Eman	: adpeace	pbn/@gmail.com	4	Class Presentations/ Projects/ Workbooks	V	. /		
				5	Facilitate Teaching		V		
STUDENTS FEEDBAC	K FROM			6	Multidisciplinary Projects/ Live Projects		1		
(For Registered Stud	dent)			7	Learning Program	~	V		
Degree Program: B.Tech. /M.Tech. /Ph.D. (Agricultura	al Engineeri	ng)		8	Placement Cell Activities NSS / NCC Activities	V			
Discipline in case of PG Degree :	athan	Degiste		1	nfrastructural Facilities		1		
Varie of Admission : 0002-00	don room	Semest	ation No. : 204	2	College website Class room Infrastructure		~		
		Section	. ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	3	Girls Common Room	~			
This questionnaire is intended to collect mit	ormation re	lating to	o your satisfaction	4	Drinking water facility	V			
owards the curriculum, learning and evaluation, the	aback for a	n provia nality ir	ned by you will be	5	Washroom Cleanliness and maintenance Greenery in the college campus	V	~		
programme of studies / institution.	IDAUK INT -	uany	npiovement of the	7	Cleanliness and maintenance of college	V			
Sr. How do you rate the following	Sucallant	Very	C	-	premises				
Acadomic Resources (Faculty)	Excenenc	Good	Good Satisfactory	Any	other SUGGESTIONS :				
Mentoring and Motivating Students for	1.7		-	.1	hear is inadequate shaft i	L Cell	eg in	saber	hive o
1 Academic Growth and Development	4			da	postment. Therefore there U	heed o	t. ses	and a	on t
Content of Syllabi of the Courses Syllabi covered in the Class	V	-			- It the college. Those for	3			
4 Delivery of Content in the Class	V						~	1	4
6 Subject Expertise		~		Plac	Pachani		Signatu	ire of the	Student
7 Linking Theory with Examples and Practices 8 Accessibility for Interactions	4	V		1.110	e: location		Name:	Kalban	nde Nist
9 Use of Teaching Aids and ICT in the Class to		V					Mobile	No:	102833
Facilitate Teaching Encouragement for Out of the Box and		11							
10 Innovative Thinking Encouragement for Co-Curricular and Extra-	. /	~							
11 Curricular Activities	V								
12 Over all Learning Experience with the faculty	~								
M. Tech, & Ph.D. (Agricultural Engineering) Parbh	ani			MI	rech. & Ph.D. (Agricultural Engineering) Parbl	nani			
M.Tech. & Ph.D. (Agricultural Engineering) Parbh	iani		Email Id:	<u>M.1</u>	řech. & Ph.D. (Agricultural Engineering) Parbl	nani			
M.Tech. & Ph.D. (Agricultural Engineering) Parbh	iani IEERING &	& TECH	Email Id: INOLOGY	MI	rech. & Ph.D. (Agricultural Engineering) Parbl	nani			
M.Tech. & Ph.D. (Agricultural Engineering) Parbh	iani IEERING & I KRISHI V 2 (MS)	& TECH /IDYAP	Email Id: INOLOGY EEETH,	<u>M.I</u>	rech. & Ph.D. (Agricultural Engineering) Parbl Seminars Special Lectures /Guest Lectures/Virtual Lectures	nani	~		
M.Tech. & Ph.D. (Agricultural Engineering) Parbh College of Agricultural Engine VASANTRAO NAIK MARATHWADA PARBHANI – 431 40 Phone No: 02452 -223230	tani (EERING & 1 KRISHI V 12 (MS) Email:	& TECH /IDYAP : adpcaet	Email Id: INOLOGY PEETH, Ipbn@gmail.com	MA	Tech. & Ph.D. (Agricultural Engineering) Parbl Seminars Special Lectures /Guest Lectures/Virtual Lectures Handson Training/ In-plant Training for Academic Inhancement	hani	~		
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Alumni Feedback



Parents' Feedback

M.Tech. & Ph.D. (Agricultural Engineering) Par	bhani	M.Tech. & Ph.D. (Agricultural Engineer	ing) Parbhani		
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Phone No: 02452 -223230	Email: adpcaetpbn@gmail.com	Phone No: 02452 -223230	Email: adpcaetpbn@gmail.com		
PARENT'S FEEDBAG	CK FORM	PARENT'S FE	EDBACK FORM		
 Name of the parent and relation with studen Name of students with Reg. No. Degree Pro Address of the parent: स्व म्वय, देवा वरवमता बाइ, प्रदम्ना, देवा 	अोि स्टेशनेना जनामीराव भार कु जीलजो जनामीराव देशनेना नेना. राज्यतेन नगर, जानगुर् फाटा.	1. Name of the parent and relation with 2. Name of students with Reg. No. De 3. Address of the parent: 	nsudent: <u>Raju Nitthal</u> Rhalexao, Fat ree Prog. Sushant Raju Rhalexao 		
 Name of Student's Adviser:	hour his/her academic progress and ropriate) lent / Very good / Good / Satisfactory lent / Very good / Good / J satisfactory satisfacto	1q	A		
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प्रयो रिकन जरीक आहेत. का रतलेल. व लरील कार्यालय	M.Tech. & Ph.D. (Agricultural Engineering) Parbhi M.Tech. & Ph.D. (Agricultural Engineering) Parbhi Contact No. 9922 GGGG99 + COLLEGE OF AGRICULTURAL ENGINE VASANTRAO NAIK MARATHWADA PARBHANI - 431 40 Phone No: 02452 - 223230 Er PARENT'S FEEDBACK I 1. Name of the parent and relation with student: 2. Name of student's Adviser: DR. 9. A. 3. Address of the parent: M. Kurbin 50 4. Name of student's Adviser: DR. 9. A. 5. Purpose of visit: 6. Do you get periodical information of ward abou atindance: YS' No 7. Feedback/ comments of parent.(tick the approf Ward's Security Excellent 4. Administrative support : Excellent 6. Co-operation from faculty : Excellent 6. Administrative support : For 8. Parent's general opinion about to college / host 1. Present Sees structure: Satisfactory / Non - 8. Parent's general opinion about to college / host student's progress or any other point not cover	ani EEERING & TECHNOLOGY (KRISHI VIDYAPEETH,) D2 (MS) mail: adpcaetpbn@gmail.com FORM DayooShubaL, ShomBao, Hockal [fothee] Markol, Bacyabaseth, Aoi' Onyarehaset T.A., Tintut, Dial, pathoni	Signflurer parent Contact No. 82-08739057		

Farmer Group Feedback



COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI - 431 402 (MS)	COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI - 431 402 (MS)
Phone No: 02452 -223230 Email: adpcaetpbn@gmail.com	Phone No: 02452 -223230 Email: adpcaetpbn@gmail.com
FARMERS/GROUP OF FARMERS / S.H.G. / E.P.O. FEEDBACK FORM	FARMERS/GROUP OF FARMERS / S.H.G. / F.P.O. FEEDBACK FORM
1. Name of the farmers' Group.	1. Name of the farmer / Farmers' Group.
2. Address of the farmer/Farmers' Group.	2. Address of the farmer/Farmers' Group.
3. Date of Visit to college / Dept. / Unit. :	3. Date of Visit to college / Dept. / Unit. : FMPE
 Name of Department / Unit to which Farmer's visit and queries are related; IDE / SWCE / FMP / APE/ REI/BSCT/FS, 	 Name of Department / Unit to which Farmer's visit and queries are related: IDE / SWCE / FMP / APE/ REE/BSCUFS.
5. Brief information of farmer's query:	5. Briet information of farmer's query: 886 etital 3 dent 257
6. Name of Attending scientist / Faculty / Technical Person:	6. Name of Attending scientist / Faculty / Technical Person:
7. Comments of farmer/ group of farmers	7. Comments of farmer/ group of farmers
 Resource and Guidance by University Scientist: Excellent/Very good/Good/ Satisfactory 	 Resource and Guidance by University Scientist: Excellent/Very good/Good/ Satisfactory
The area in which field Training / Demonstration is required:	The area in which field Training / Demonstration is required:
8. Farmers general opinion about College / Unit / Department.	8. Farmers general opinion about College / Unit / Department. सङ्द्र (यामगरे) सङ्ग्रसी येव आहिता सिछा
Signature Contact No. 45164644 9673784178	Obordedaat Signature Contact No. <u>90228-13693</u>

VNMKV: Accreditation Report 2018-2023

COLLEGE OF AGRICULTUR VASANTRAO NAIK MARA PARBHANI	AL ENGINEERING & TECHNOLOGY ATHWADA KRISHI VIDYAPEETH, - 431 402 (MS)
Phone No: 02452 -223230	Email: adpcaetpbn@gmail.com
FARMERS/GRO F.P.O. F	UP OF FARMERS / S.H.G. / EEDBACK FORM
Name of the farmer / Farmers' Gr Address of the farmer/Farmers' G	oup. roup
 Date of Visit to college / Dept. / U Name of Department / Unit to wh 	Init. : ENWINERING COLLER F
5. Brief information of farmer's que	ту:
 Name of Attending scientist / Fac Comments of farmer/ group of far Resource and Guidance by Uni Satisfactory The area in which field Training Farmers general opinion about Co A 524 HTE 	ulty / Technical Person:
	Signature Contact No

6.4.8. Student intake and attrition in the programme for last five years

Table 8: Student admitted and attrition	on in Ph.D. programm	ne in last five years
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Name of		Stud		Attrition (%)						
the Degree Programme Ph. D.	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23	2018- 19	2019- 20	2020- 21	2021- 22	2022- 23
Farm Machinery and Power Engineering	-	-	-	01 1M	02 2M	-	-	-	-	-

Table 9: Students intake and attrition in Ph. D. degree programme

		Ph	. D.	
Batch	Stuc adm	lents itted	Dro	pped
	Μ	F	Μ	F
	No.	No.	No.	No.
2018-19	00	00	00	00
2019-20	00	00	00	00
2020-21	00	00	00	00
2021-22	01	00	00	00
2022-23	02	00	00	00

Sr. No.	Year	No. of Ph.D. students
1	2018-19	01
2	2019-20	01
3	2020-21	01
4	2021-22	02
5	2022-23	-

Table 10 : Students Passed out (Ph.D. degree programme)

6.4.9 ICT Application in Curricula Delivery

The PG classrooms are equipped with LCD projectors for power point presentations. Following ICT tools are used in PG classrooms and laboratories for teaching and conducting practical of PG courses.

- 1. Desktop and Laptop
- 3. Interactive White Board
- 5. Simple-Projector
- 7. Digital Camera
- 9. Wireless Microphone for Convenience

- 2. Document Camera/Visualize
- 4. Interactive Projector- Kayon
- 6. Speakers
- 8. Printer
- 10. Digital Podium

Certificate

I, Dr. U. M. Khodke, **Dean**, College of Agricultural Engineering & Technology, Parbhani hereby certify that the information contained in Section 6.4 (Section 6.4.1 to 6.4.9) are furnished as per the records available in the college and degree awarding University.

(U.M. Khodke) Dean

Date:

Seal:

6.5 Self Study Report of the College

6.5 Self Study Report of the College

College of Agricultural Engineering and Technology is a constituent college of Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani. It is established on 23rd November, 1986 vide the Govt. of Maharashtra Resolution No. **MKV-1286/CR-101/20-A dated 23 October 1986** with initial intake capacity of 32. The main objective of establishment of College of Agricultural Engineering & Technology is to cater the need of Agricultural Engineering education of Marathwada region of Maharashtra state. College is located within University main campus. The intake capacity of the degree programme was later increased to 64 students in the year 2005-06 and 80 students in the year 2022-23.

College also have PG programmes of M. Tech and Ph. D. degree. The post-graduate programme leading to M. Tech. degree in Soil and Water Conservation Engineering was started in the year 1998 with intake capacity of two students (MCAER order No. MCAER/EDU/CR-884/KA-2/603/96 dated 07 March 1996). Further in 2002, M. Tech. Degree programme was started in another three disciplines viz. Agricultural Process Engineering, Farm Machinery and Power, and Irrigation and Drainage Engineering with intake capacity of four students in each discipline.

In 2018-23, Ph.D. (Agril. Engg.) degree programme in four major specializations was started in: (i) Irrigation and Drainage Engineering (ii) Soil and Water Conservation Engineering (iii) Processing and Food Engineering and (iv) Farm Machinery and Power Engineering with intake capacity of two students (MCAER decision No. 21/88/2013 of order No. MCAER/EST-5/ACM-2113/1649/2013).

The college campus is located within the jurisdiction of Parbhani Municipal Corporation and spread over an area of 6 ha comprising the college building, boys hostel building, play grounds, renewable energy park, ELP unit, instructional farm (2.52 ha) and research and demonstration farm (22.15 ha).

Graduation programme in Agricultural Engineering is being run in which students are admitted through Central Online Admission Process (CAP) implemented by State Nodal Agency, Maharashtra Council of Agricultural Education and Research, Pune and through Central Admission Process by ICAR, New Delhi.

6.5.1 College Administration

6.5.1.1 College Dean's Office Establishment

The post of Associate Dean and Principal of College of Agricultural Engineering is sanctioned by State Government Resolution during the establishment of college. Presently Dr U.M. Khodke, is working on the Associate Dean and Principal since October 2016. Following posts are sanctioned by Government of Maharashtra for the establishment of Dean's office. Existing status of Dean's office establishment of the college is as under (Table 1).

S. No.	Post	Sanctioned]]	Position
			Filled	Vacant
1	Associate Dean	01		01
2	Asstt. Section Officer	01	01	-
3	Stenographer	01	01	-
4	Sr. Clerk	01	01	-
5	Jr. Clerk	05	01	04
6	Driver/Computer operator/technician	01	01	00
7	Mazdoor	05	04	01
8	Agril. Assistant	02	01	01
9	Peon	05	04	01
10	Sweeper	05	04	01
11	Watchman	01	-	01
12	Electrician	01	-	01

Table 1: Details of Dean's office establishment

The office of Dean is well furnished with chairs, sofa set, meeting tables and refrigerator as well as communication modes such as computers, internet facility, fax and telephone facility, zerox machine, 20 kW generator set and water RO purifier (Table 2).

Table 2: Details of communication facilities at Dean's office

S. No.	Communication Mode	Details
1	Telephone	02452-223230
2	Mobile	9422178025
3	Fax	02452-223230
4	e-mail	adpcaetpbn@rediffmail.com,
		adpcaetpbn@gmail.com

Dean's office has three blocks. One block each is allocated for education branch, administrative section and account & scholarship section. Computers, printers and photocopying machines with internet facilities are available in education branch. The education branch has three separate rooms and examination hall, while the administrative

section has four compartments with computer and internet facilities. In order to provide continuous uninterrupted power supply to Dean's office, establishment, education branch, account and scholarship section, examination section and similar other common educational facilities, 20 kW diesel run generator is provided. In addition separate 3 KW inverters are provided to each section.

S.	Particulars	Size (sq.m)
No.		
1	Associate Dean's Chamber	40.58
2	Meeting Hall	40.58
3	Waiting Hall	25.64
4	Stenographer Office	25.64
5	College Administrative office	66.70
6	Education and exam Cell	9.29

Table 3: Details of infrastructure at Dean's office

6.5.1.2 Monitoring Mechanism for Quality Education (On-Line)

College has internal quality assurance system, with appropriate structure and processes and with enough flexibility to meet the diverse needs of the stakeholders. This helps in planning, guiding and monitoring quality assurance and quality enhancement activities of the college.

Institutional Planning and Monitoring Processes

- The Dean is the administrative Head, who is responsible for planning, coordinating and monitoring the mandatory activities of the academic staff such as teaching, research and extension in consultation with the concerned Heads of the Department.
- Dean conducts monthly meeting with the Heads of the Departments, Academic staff and members of the Students Council to maintain congenial and pleasant healthy environment among the students.
- Dean also conducts meeting of administrative and accounts staff for planning and monitoring the various activities.

Teaching

• College has monitoring mechanism for quality education and have separate Education and Examination branch at college level. Education and Examination branch of college, regularly execute and monitors registration, plan the schedules of theory and practical classes. Monitoring of theory and practical education, internal evaluation and planning and execution of research and in-plant training is also done at department level. • Dean undertakes surprise vigilance to the classes of UG and evaluate the performance of the teachers and students in the class, whereas informal discussions with the students help in getting their feedback which is a part of routine work.

Research

• Department wise meetings are conducted to plan the research work of UG, PG and Ph.D. students and faculty members. The research topics are approved by the Research Committee of the University. The staffs are expected to carry out the approved research and present the report in the Research Review Committee at University level. On approval from the RRC the research recommendations are presented before the Joint Agricultural Research Committee for release at the State level.

Extension

- Need based trainings, workshops, crash courses, lectures and demonstrations are planned by the Departments for the benefit of the society, beside this various radio, TV talks are broadcasted. Coverage of extension programme is given by local and National channels on TV and through social media.
- Extension activities are regularly planned according to the requirement of stakeholders and dissemination of technology is done through organization of *melavas*, rallies, and exhibition where different research outcomes are shared by means of posters, presentations and oral advice to the stakeholders. Moreover, discussion of future activities is carried out in monthly meetings.
- The various cells like education, research, extension, examination, students' guidance and counselling have been established for smooth functioning of academic activities. Besides this, to maintain discipline and study environment in the College and Hostel premises Anti-Ragging Committee is formulated.

Impact of monitoring on the outcome

- During 2018-2023 total 26 students are qualified through the PG entrance examinations conducted at National level for pursuing higher education so as to get high grade professional job, similarly about 100 students qualified the entrance examinations conducted at State level for pursuing higher education.
- Fourty five students of the college are working in private institutes, organizations and firms as Design/Sales Engineer dealing with irrigation systems and components, seed

processing and marketing, tractor and farm machinery, renewable energy, electric motor accessories, watershed development organisations, NGOs, etc.

• Fourty seven students (46% of the total passed out graduates of the college) during 2018-19 to 2022-23 are selected in different banking and financial sector, dealing with Agricultural Development Projects for farming community.

6.5.1.3 CC/Board of Studies

Constitution of Board of Studies

In accordance with the provisions of section 36 and subject to the approval of the Academic Council and Executive Council a Board of Studies for a subject is constituted for the concerned discipline. Constitution of 'Board of Studies' is as under. The Chairman may invite one or two academic staff members from constituent colleges for a particular meeting.

S.	Designation	Position in committee
No.		
1	Head of the Department	Ex-Officio Chairman
2	Heads of the Department in other SAU's	Member
3	Academic staff of department	Member
4	Govt. development departments (Agriculture and allied	Member
	field) Official	
5	Progressive farmer/Entrepreneur in Marathwada region	Member
6	Academic staff of department	Secretary

At college level, Board of Studies (BOS) Committees in six disciplines exists as per Maharashtra Agricultural Universities Statutess. Regular meetings of BOS are conducted to discuss the issues pertaining to UG and PG syllabus, research aspects, in-plant training, advance techniques and instrumentations, etc. and recommendations are made in particular discipline. Additional BOS meetings are also conducted as the need arises to discuss the related issues. Details of BOS meetings conducted during 2018-19 to 2022-23 at the college are presented in Table 5.

Year	Dates of	Decisions / Recommendations			
	Meeting				
Department of Irrigation and Drainage Engineering					
2018-19	21/12/2018	ORW of M.Tech. students Mr. Bachhe S. S., Mr.			
		Ghodke N .L.			
2019-20	05/10/2019	ORW of M.Tech. Students, Mr. Giram D. M., Miss.			
		Phupate A.B.			
		Synopsis of Ph.D. students, Mr. Jadhav S. B., Mr.			
		Supekar S. J.			
2020-21	02/07/2020	ORW of M.Tech. students, Chalapati H. V., Mr.			
		Jawale B. V., Mr. Jadhav R. N., Mr. Sangale B. B.			
2021-22	11/11/2021	ORW of M. Tech. student, Mr. Balore K. A., Miss.			
		Rohokale A. S., Miss. Waghmare B. N.			
2022-23	28/07/2022	ORW of M.Tech. student, Mr. Giram K.S., Miss.			
		Pawar H.B., Mr.Thombre V.C., Mr. Choudhary V.S.			
2018-19	21/12/2018	ORW of M.Tech. students Mr. Bachhe S. S., Mr.			
		Ghodke N .L.			
	Department of Soil :	and Water Conservation Engineering			
2018-19	22-5-2018	1. Approval of ORW of Ph D Student S D Payal			
		Nagnur as member of SAC of Ph D Student S D			
		Payal.			
	14-12-2018	1. Approval of ORW of three M Tech students			
2010-20	20.7.2010	1 Approval of OPW of Ph D student M P More &			
2019-20	29-7-2019	two M. Tech students.			
	7-2-2020	1. Approval of ORW of Ph D Student More R M			
		2. Approval of research synopsis of Ph D Student A			
		M Kamble			
		1 Approval of research synopsis of Ph D student			
	20-2-2020	Ms Pimpale S V			
2020-21	6-11-2020	1. Approval of ORW of three M. Tech students			
	25-1-2021	S D Paval			
		2. Approval of ORW of two M. Tech students			
2021-22	16-9-2021	1. Approval of ORW of Ph D student S N Pawar			
	13-3-2022	1. Approval of OK w of three M. Tech students			
2022-23	17-5-2022	1. Approval of ORW of M. Tech student S A Sarode			
	10-10-2022	1. Approval of Research synopsis of Ph D student			
		M K More			

Table 5: Department wise dates of conduct of BOS meetings during last five years

Department of Agricultural Process Engineering				
2017-18	24/04/2018	ORW of M. Tech. students, Giram R, J., Nakade K.		
		T., ORW of Ph. D. Students, Ms. Gajabe M.H., Mrs.		
		More P. G., CPW of M. Tech. in Process and Food		
2020.01	0.5/00/2000	Engineering, Giram R, J., Nakade K. T.		
2020-21	06/03/2020	Approval of ORW of M. Tech students Mr. Kokane		
		S.B., Miss kalamnurikar .S.S., Mr. Murtadak S.F.		
		Approval of Synopsis of Ph.D students Mr. Jadhav		
		S.B. Miss Gajabe M.H and Miss. More P.G		
2021-22	05/05/2022	Approval of list of External examiner for PG and		
		Ph.D curriculum		
		Synopsis of Ph.D student Miss. NilzaOthzes		
		Review of BSMA-PFE, M.tech and Ph.D syllabus		
2021.22	16/11/2022	A survey of ODW of M Took of idente Mice Dellevi		
2021-22	10/11/2022	Approval of OKW of M. Tech students Miss.ranavi Vaidya Mr. AdityaKhiste, Miss Rachana Jadhay		
		Valuya, Ivii. Autyarxiniste, Iviiss Raenanasaunav		
r	onartment of Far	m Maahinary and Power Engineering		
2018-19	6/9/2018	OPW of M Tech students Samir Shaikh kalish		
2010 17	0/ 7/ 2010	Iondhale / Ph D students R. B. Pawar		
2019-20	27/1/2020	ORW of M.Tech. students Anuj Kolhe,		
		S.S.Shivankar Synopsis of Ph.D.students		
		P.A.Munde, Shailja Deshwena		
2020-21	4/12/2020	Synopsis of Ph.D.students ,D.D.Tekale ,R.B.Pawar		
2021-22	15/12/2021	ORW of M.Tech students, Kirshna Lohakare,		
2022.22	22/0/2022	Ashutosh Kakde, Pragati Dhande, Poornima Rathod		
2022-23	23/9/2022	URW of M. I ech students Unkar Kakde, Shinde		
		Bhalrrao		
	Department o	f Renewable Energy Engineering		
2018-19	14/06/2018	Approval of redesignation of post of Asstt. Prof.		
		(FSRE) to Asstt. Prof. (RES)		
2019-20	23/08/2019	Approval of changing the name of department as per		
		V th deans Committee. Preparation of ELP.		
2020-21	29/10/2020	Review and strengthening of staff position and		
2021.22	15/06/2021	approval for contractual teacher		
2021-22	13/06/2021	Preparation of proposal for teaching associate		
2021-22	16/01/2022	Review of PO synabus as per DSIMA norms Review of laboratory facilities and filling the post of		
		teaching associate		
2022-23	17/10/2022	Instruments and books required as per BSMA		
		Sllabus for M.Tech and PhD courses.		
		Printing of practical books of various courses as per		
		Vth deans committee syllabus		

	Department of Farm Structures			
2018-19	26/02/2019	1. Consultancy and testing in department for revenue		
		generation.		
		2. Recognition of faculty in the department as PG		
		Research guide.		
2019-20	20/07/2019	1. Finalization of training institute for IA/ELP.		
		2. Appointment of Contractual teacher		
2020-21	06/08/2020	3. Strengthening of FS Lab		
		4. Appointment of Contractual teacher		
2021-22	09/08/2021	1.Appointment of Contractual teacher		
2022-23	10/06/2022	1. Finalization of PG syllabus as per BSMA norms.		
		2.Appointment of Contractual teacher		

To address the academic, research and student specific issue, council committee exists at Faculty level. Regular meetings of the CC (Council Committee) were conducted to discuss the issues related to all degree programmes and submitted to academic council for further recommendations and implementations.

S. No.	Position	Name of the faculty	Position in
			committee
1	Associate Dean and	U. M. Khodke	Chairman
	Principal		
2	Head (Agril.Engineering)	R.G. Bhagyawant	Member
	Professor		
3	Associate Professors	V. M. Bhosale	Members
		R.T. Ramteke; B. W. Bhuibhar	
		S. N. Solanki; R.V. Jaybhaye	
		H.W. Awari	
		P. A. Munde; S. B. Jadhav	
		D. D. Tekale; B. B. Badgire	
4	Assistant Professor	M.S. Pendke	Member
		B. P. Sawant; A. R. Mantri	
		M. R. More; N. M. Tamboli	
		S. J. Supekar; A. M. Kamble	
		S. B. Jadhav; S. D. Vikhe	
		P. G. More; G. U. Shinde	
		S. D. Payal; R. V. Shinde	
		V.B. Jadhav; V. K. Ingle	
		S. R. Garud; D. V. Patil	
		S. N. Pawar	
5	Asistant Registrar	Representative of Registrar	Member
6	Progressive	-	Member
	farmer/Enterpreneur		

 Table 6: Structure of College/ Faculty Council Committee

S. No.	Position	Name of the faculty	Position in committee
7	Professor	S. U. Khodke	Secretary

6.5.1.4 Anti Ragging Cell

As per the directives and recommendations of the Hon Supreme Court of India 2009 Civil Appeal No. 887/2009 and UGC, college has formulated 'Anti-Ragging Committee (Table 7) and Vigilance Committee' (Anti Ragging Squad) (Table 8). Committee is constituted for each academic year to tackle the menace of ragging and prevention of ragging incidences in college and hostel premises. Constitution of above committees is as under.

S. No.	Name of the employee	Designation	Position in committee
1	Dr. U. M. Khodke	Associate Dean and Principal	Chairman
2	Dr. R. T. Ramteke	HOD (REE)	Member
3	Prof. B.W. Bhuibhar	HOD (SWCE)	Member
4	Dr. S. U. Khodke	HOD (APE)	Member
5	Prof. V. M. Bhosale	HOD (BSCT)	Member
6	Dr S. N. Solanki	HOD (FMP)	Member
7	Dr. P. A. Munde	Associate Professor (FMP)	Member
8	Dr. S. D. Vikhe	Assistant Professor (Civil	Member
		Engg)	
9	Dr. V. K. Ingle	Assistant Professor (IDE)	Member
10	Mr. A. D. Harkal	Ph. D. student	Member
11	Mr. A.A. Khiste	M. Tech. Student	Member
12	Mr. D. R. Zagare	B. Tech. Student	Member
13	Mr. R. G. Shinde	Student Parent	Member
	(Sanpuri)		
14	Nayab Tahsildar	Nayab Tahsildar, Tahsil office,	Member
		Parbhani	
15	M. B. Deshmukh	Reporter, Daily Lokmat,	Member
		Parbhani Office	
16	L. V. Rautmare	Technical officer	Secretary

Table 7: Anti-Ragging Committee

The committee addressed the joint orientation programme of fresher and juniors. The committee takes an appropriate decision in regard to punishment or otherwise depending on the facts of incidents of ragging and nature and gravity of the ragging incidents. The Anti-ragging cell is functioning in room No. 3 of the college building.

In order to curb and prevent ragging incidents in college and hostel premises, Anti-Ragging Squad is also in-place at college level (Table 8). ARS makes frequent surprise raids on hostel and other places of incidence in college premises; conducts on the spot enquiry of the cases reported and submits the report to Anti Ragging Committee.

The vigilance squad is perpetually vigilant for curbing any kind of ragging incidence among students in college and hostel premises. The squad undertakes frequent and sudden visits to the hostels, library, play grounds and other places in the college campus/premises. In case of intentional or inadvertent cases of dreadful ragging incidents, if noticed, the squad officially lodges the complaint against the guilty students to the chairman of the anti-ragging committee for further investigation. At college and hostel premises, no ragging incidences have been reported during 2018-19 to 2022-2023.

Sr. No.	Name of the employee	Designation	Position
1	Dr. R. T. Ramteke	HOD (REE)	Chairman
2	Prof. B. W. Bhuibhar	HOD (SWCE)	Member
3	Dr. S. U. Khodke	HOD (APE)	Member
4	Dr. P. G. More	Asstt. Prof. (APE)	Member
5	Dr. P. A. Munde	Asso. Prof. (FMP)	Member
6	Dr. G. U. Shinde	Asstt. Prof. (FMP)	Member
7	Dr. M. R. More	Asstt. Prof. (SWCE)	Member
8	Dr. R. V. Shinde	Asstt. Prof. (BSCT)	Member
9	Dr. V. K. Ingle	Asstt. Prof. (IDE)	Member
10	Dr. S. R. Garud	Asstt. Prof. (APE)	Member
11	Prof. D. V. Patil	Asstt. Prof. (FMP)	Member
12	Dr. S. D. Vikhe	Asstt. Prof. (Civil Eng.)	Secretary

Table	8:	Anti-R	agging	Squad
I HOIC	••	I MILLI IN	*****	Squuu

In addition, in order to maintain the discipline and good conduct, in college and hostel premises, Disciplinary Committee at college level is in-place. The committee enquires the incidences pertaining to conflicts among students, damaging public property and others in hostel and college premises. The committee follows the usual procedure of discipline and conduct and suggests punishment on the basis of nature of in-discipline/misconduct and submits the report to Associate Dean and Principal. The constitution of the disciplinary committee is as under (Table 9).

S.	Name of the employee	Designation	Position
No.			
1	Dr. R. T. Ramteke	HOD (REE)	Chairman
2	Prof. B. W. Bhuibhar	HOD (SWCE)	Member
3	Prof. V. M. Bhosle	HOD (BSCT)	Member
4	Dr. S. D. Vikhe	Asstt. Prof. and Hostel Warden	Member
5	Dr. P. G. More	Asstt. Prof. (APE)	Member
6	Dr. V. K. Ingle	Asstt. Prof. (IDE)	Member
7	Dr. P. A. Munde	Asso. Prof. (FMP)	Secretary

Vigilance Committee is formulated annually to supervise the security aspects of fresher students during admission process and post admission process. The frame work of Vigilance Committee, formulated is as under (Table 10).

Table 10:	Vigilance	Committee
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S. No.	Name of the employee	Designation	Position
1	Prof B W Bhuibhar	HOD (SWCE)	Chairman
2	Dr. S. B. Jadhav	Asso. Prof. (IDE)	Co-chairman
3	Dr. G. U Shinde	Asstt. Prof. (M.E.)	Member
4	Dr. R. V. Shinde	Asstt. Prof. (Phy.)	Member
5	Dr. S. R. Garud	Asstt. Prof. (APE)	Member
6	Prof. D. V. Patil	Asstt. Prof. (FMP)	Secretary

Hostel Management Committee is also in place for this college in order to address the difficulties and problems and to monitor the facilities pertaining to cleanliness, sanitation, security aspects, etc. provided for the students at hostel. The frame work of Hostel Management Committee is as under (Table 11).

Table 11: Hostel Management Committee

S. No	Name of the employee	Designation	Position
1	Dr. S. D. Vikhe	Asstt. Prof. and Hostel Warden	Chairman
2	Dr. P.G.More	Asstt. Prof. (APE)	Member
3	Dr. M.R.More	Asstt. Prof. (SWCE)	Member
4	Shirale B.K	Hostel Assistant	Member
5	Mr. D. B. Pawar	Student Representative	Member
	(2020AEPB/047)		
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6	Mr.S.R Chame	Student Representative	Member
	(2020AEPB/007)		
7	Er. Shaikh Ahmed	Junior Engineer	Member
		Office of University Engineer	
8	Dr. V. K.Ingle	Asstt. Prof. and Hostel Warden	Member Secretary

6.5.1.5 Biological Waste Disposal Facility

Biological waste disposal facilities are in-place separately at college and hostel premises. Biological waste is disposed of on the principle of composting in the composting pits and the by product is used as manure in college premises and on instructional farm. E-waste generated in the college is discarded by writing off the record and same is auctioned as and when required as per the university rules.

6.5.1.6 Institutional Ethics Committee for Experiment on Animals

The college follows all the guidelines of CPCSEA and also constituted an Institutional Ethics Committee. However, in the ICAR recommended syllabus of UG, PG and Ph. D. programme, no course, syllabus or topic is included regarding actual experiments on animals. However, the institutional ethics committee for experiments on animals is in operation at the college, if any experiments/ practicals are proposed on animals. AICRP on Utilization of Animal Energy is in operation in the college and hence this work is allotted to them. The Institutional Ethics Committee of the college for experiment on animals is as under (Table 12):

Sr. No.	Name of Staff	Position
1	Dr S. N. Solanki	Chairman
	Head, Deptt. of FMP, CAET, VNMKV, Parbhani.	
2	Dr Dinesh Singh Chauvan	Member
	I/C, Central Cattle Breeding Project, VNMKV, Parbhani.	
3	Dr. S. S. Deshmukh	Member
	Asstt Prof. CCBP, VNMKV, Parbhani.	
4	Shri. A.A. Waghmare	Member
	SRA, CAET, VNMKV, Parbhani	
5	Dr. P. A. Munde	Member Secretary
	Asso. Prof. Deptt. of FMP, CAET, VNMKV, Parbhani.	

Table 12: Institutional ethics committee for experiment on animals

6.5.1.7 Committee for Prevention of Sexual Harassment of Women at Work Places

Prevention of Sexual harassment of women at work place is constituted at university level for redressal of cases under sexual harassment at university level. At college level the committee for prevention of Sexual Harassment of Woman at work place has also been constituted (Table 13). The constitution of the committee is as under.

S. No.	Name of Staff Member	Designation
1	Dr. S. U. Khodke, HOD (APE)	Chairman
2	Dr. S. D. Vikhe, Asstt. Prof. (FS)/ Hostel Warden	Member
3	Dr. P. G. More, Asstt. Prof. (APE) & Hostel Warden	Member
4	Asst. Reg. GAD, Registrar Office, VNMKA, Parbhani	Member
5	Smt. S. A. Tonage, Labour	Member
6	Smt. S. S. Talekar, Agril. Asstt.	Secretary

Table 13: Committee for prevention of sexual harasement of women at workplace

The college has in all 10 women staff members, comprising of 3 academic, 3 ministerial and 4 labourers and there are 57 girl students in UG, PG & Ph.D. degree programme. During last five years, there is no complaint of sexual harassment of women in the college.

Committee for prevention of sexual harassment at work place of women is holds surprise meetings in August every year regarding awareness about rules and regulation regarding sexual harassment of women at work place, similarly and a review meetings after every six months were conducted during last five years.

6.5.2 Faculty

6.5.2.1 Faculty Strength

In all, 19 posts of academic staff are sanctioned by Govt. of Maharashtra for UG, PG and Ph. D. programmes of the college. The sanctioned faculty consists of one post of Associate Dean and Principal, five posts of Associate Professors, 11 posts of Assistant Professors (Agricultural Engineering) and one each of Electrical Engineering, Civil Engineering and Mechanical Engineering. The sanctioned and in-place positions of faculty of the college and other faculty of the University and contractual teachers engaged for UG, PG and Ph.D. Programme are presented in Table 15-18.

S. No.	Sanctioned Faculty	Faculty in Place	Vacant Position	Sanctioned position	Faculty recommended by the ICAR regulatory body	Deviation (%)
1	Associate Dean and Principal	-	1	1	1	00
2	Professor			00	07	100
3	Associate Professor	05	00	05	14	64
4	Assistant Professor	11	02	13	21	38
	Total	16	03	19	43	56

Table 14 : Details of sanctioned and in-place position of faculty of college

* Available faculty are being utilized for multiple programmes

S. No	Post	Sanctioned	Filled	Vacant	Faculty	Remark			
		post	post		recommended				
					by the ICAR				
1			· ·		regulatory body				
	Department of Irr	igation and D	rainag	ge Engine	ering	G : C1			
	Professor	0	0	0	1	Services of the			
	Associate Professor	1	1	0	2	Assistant			
	Assistant Professor	2	2	0	3	Associate			
2	Soil and Water Con	servation En	gineer	ing		Professors from			
	Professor	_	_	_		faculty of			
		0	0	0	1	Agriculture and			
	Associate Professor	1	1	0	2	from AICRP on			
	Assistant Professor	2	2	0	3	Irrigation Water			
3	Agricultural Proces	s Engineering	g			Management and			
	Professor	0	0	0	1	A griculture are			
	Associate Professor	1	1	0	2	spared and			
	Assistant Professor	2	2	0	3	deputed to			
4	Farm Power and M	achinery				support the			
	Professor	0	0	0	1	teaching and			
	Associate Professor	1	1	0	2	research			
	Assistant Professor	3	3	0	3	College of			
5	Renewable Energy	Engineering				Agricultural			
	Professor	0	0	0	1	Engineering			
	Associate Professor	0	0	0	2				
	Assistant Professor	2	0	2	3				
6	Farm Structures				-				
	Professor	0	0	0	1				
	Associate Professor	0	0	0	2				

	Assistant Professor	1	1	0	3
7	Basic Science and C	Computer Tec	hnolog	gy	
	Professor	0	0	0	1
	Associate Professor	1	1	0	2
	Assistant Professor	1	1	0	3

Research Staff Involved in UG and PG Teaching

S.No	Name of employees	Designation	Qualification
1	Dr. S.N. Solanki	Professor (CAS) and	M.Tech.(FPAM),
		Research Engineer	Ph.D. (FMP)
2	Dr. D.D. Tekale	Professor (CAS)	M.Tech.(FPAM),
		and Agril. Engineer	Ph.D. (FMP)
3	Dr. M.S. Pendke	Professor (CAS)	M.Tech.(SWCE),
		and Agril. Engineer	Ph.D. (SWCE)

Table 16: Outsourcing from Other Constituent Colleges of VNMK (from 2018-19 to2022-23)

Academic	Session	Name of University	Qualification	Course	Credits
Year		Teacher		No.	
		Dr. P.K. Waghmare	Ph.D. (Agro.)	ASAGRO-	2(1+1)
2018-19	Monsoon/			111	
to	Summer	Dr. V.N. Shinde	Ph. D. (Hort.)	ASHORT-	2(1+1)
2022-23				111	
		Dr. R. N.Khandare	Ph.D.(SS & AC)	ASSS-111	2(1+1)
		Dr. R.C.Sawant	Ph.D.(Agril. Extn.)	DEG-111	1(1+0)
		Dr. R.C.Sawant	Ph.D.(Agril. Extn.)	ASEXTN-	2(1+1)
				231	
		Dr. S.B.Borgaonkar	Ph.D.(Agril. Botany)	ASESDM-	3(2+1)

Table 17: Details of contractual teachers engaged for completing curriculum of UG

degree programme (from 2017– 18 to 2022 -23)

Academic	Session	Name of	Qualification	Course No.	Credits
Year		Contractual			
		Teacher			
2018-19	Monsoon	V. D. Raut	M.Sc. (Agril. Extn)	AS-EXTN-111	2(1+1)
		V. D. Raut	M.Sc. (Agril. Extn)	DEG-111	1(1+0)
		V. D. Raut	M.Sc. (Agril. Extn)	AS-EXTN-231	2(1+1)
	Summer	M. S. Mokalikar	M.Sc. (Agril.Hort.)	AS-HORT-121	2(1+1)
2019-20	Monsoon				

	Summer	Thalkari	M.Sc. (Agril. Hort.)	AS-HORT-121	2(1+1)
		Mrs. Pawar M V	M.Sc.(Envormental	AS-ESDM-361	3(2+1)
			Science)		
2020-21	Monsoon				
	Summer				
2021-22	Monsoon				
	Summer	Pisore V R	M.Sc.(Agril.Agro)	AS-AGRO-121	2(1+1)
2022-23	Monsoon	Guldagad	M.Sc. (Agril. Extn)	AS-EXTN-231	2(1+1)
	Summer				

Department of Basic Science & Computer Technology

Academic	Session	Name of	Qualification	Course No.	Credits
Year		Contractual			
		Teacher			
2018-19	Monsoon	K. V.Bothara	B.E.(E&TC)	BSCOMP-111	2 (1+1)
	Summer	G.S.Shekde	M.Sc.(Maths)	BSSTAT - 121	2 (1+1)
		Dr. Sayed	Ph.D.(Comp.	BSCOMP-122	2(0+2)
		Khizer	Science)		
2019-20	Monsoon	K. V.Bothara	B.E.(E&TC)	BSCOMP-111	2 (1+1)
	Summer	G.S.Shekde	M.Sc.(Maths)	BSSTAT - 121	2 (1+1)
		Dr. Sayed	Ph.D.(Comp.	BSCOMP-122	2(0+2)
		Khizer	Science)		
2020-21	Monsoon				
		G.S.Shekde	M.Sc.(Maths)	BSSTAT - 121	2 (1+1)
2021-22	Monsoon				
	Summer	S. E.Chavan	M.Sc.(Maths)	BSSTAT - 121	2(1+1)
2022-23	Monsoon				

Department of Farm Structures

Academic	Session	Name of	Qualification	Course No.	Credits
Year		Contractual			
		Teacher			
2018-19	Summer	Er.C.J.Karegaonkar	B. E. (Mechanical)	FS-122	2(1+1)
2019-20	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-233	2(1+1)
	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-111	3(2+1)
2020-2021	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-233	2(1+1)
	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-111	3(2+1)
2021-2022	Summer	Er.V.N.Karhale	B. E. (Civil)	FS-122	2(1+1)
	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-111	3(2+1)
2022-2023	Summer	Er.V.N.Karhale	B. E. (Civil)	FS-122	2(1+1)
	Monsoon	Er.V.N.Karhale	B. E. (Civil)	FS-111	3(2+1)

Academic Year	Session	Name of Teacher	Qualification	Course No	Credit
2018-19	(Monsoon)	K. V. Bothra	B.Tech (Electronics & Communications)	REE-233	3 (2+1)
	(Summer)	K. V. Bothra	M.Tech (Digital Communication)	REE-122	3 (2+1)
2019-20	(Monsoon)	S.N. Mustapure	Ph.D. (Agril. Engg.) Renewable Energy Engineering	REE-354	3 (2+1)
	(Summer)	K. V. Bothra	B.Tech (Electronics & Communication) M.Tech (Digital Communication)	REE-122	3 (2+1)
	(Summer) S.N. Mustapure		Ph.D. (Agril. Engg.) Renewable Energy Engineering	REE-365	3 (2+1)
2020-21	(Monsoon)	S.N. Mustapure	Ph.D. (Agril. Engg.) Renewable Energy	REE-354	3 (2+1)
-	(Monsoon)	S.N. Mustapure	Engineering	ELE- REE-481	3 (2+1)
	(Summer)	S.N. Mustapure		REE-365	3 (2+1)
	(Summer)	S.N. Mustapure		REE-111	2 (1+1)
	(Summer)	K. V. Bothra	B.Tech (Electronics & Communication) M.Tech (Digital Communication)	REE-122	3 (2+1)
2021-22	(Monsoon)	S.N. Mustapure	Ph.D. (Agril. Engg.) Renewable Energy	REE-365	3 (2+1)
	(Summer)	S.N. Mustapure	Engineering	REE-354	3 (2+1)
	(Summer)	S.N. Mustapure		ELE- REE-481	3 (2+1)
2022-23	(Monsoon)	S.N. Mustapure	Ph.D. (Agril. Engg.) Renewable Energy Engineering	REE-243	3 (2+1)
	(Monsoon)	K. V. Bothra	B.Tech (Electronics & Communication) M.Tech (Digital Communication)	REE-122	3 (2+1)

Department of Renewable Energy Engineering

6.5.2.2 Faculty Profile (Department wise)

As per Maharashtra Agricultural Universities Acts & Statute, 1983 & Amendments, 2014 therein, there are seven departments in the college. The profile of the faculties working

in different departments of the college is as under (Table 19).

Sr. No	Name of the	Name of the faculty	Designation	Qualification	
1	Irrigation &	Dr. H.W. Awari	I/C Head & Professor	M. Tech, Ph. D.	
	Drainage Engineering	Dr. S. B. Jadhav	Associate Professor	M.Tech., NET, Ph.D.	
		Dr. V. K. Ingle	Assistant Professor	M.Tech., NET, Ph. D.	
2	Soil & Water Conservation	Prof. B. W. Bhuibhar	I/C Head & Associate Professor	M. Tech.,	
	Engineering	Dr. M. R. More	Associate Professor	M. Tech., Ph.D.	
		Dr. S. D. Payal	Associate Professor	M. Tech. Ph. D.	
3	Basic Science & Computer	Dr. V. M. Bhosale	Associate Professor	M.Sc., B.Ed. (Maths)	
	Technology	Dr. R. V. Shinde	Associate Professor	M. Sc., B. Ed.Ph.D. (Phys)	
4	Renewable Energy	Dr. R. T. Ramteke	I/C Head & Professor	M. Tech. Ph. D.	
	Engineering	Dr. S.N. Mustapure	Assistaant Professor (ad-hoc)	M. Tech. Ph. D.	
5.	Farm Structures	Dr. S. D. Vikhe	I/C Head & Associate Professor	M. E., Ph.D. (Civil)	
6.	Agricultural	Dr. S. U. Khodke	I/C Head & Professor	M. Tech., Ph. D.	
	Process	Dr. P. G. More	Assistant Professor	M. Tech., Ph.D.	
	Engineering	Dr. S. R. Garud	Assistant Professor	M.Tech. NET, Ph.D.	
7.	Farm Power	Dr Indra Mani	Vice-Chancellor	Ph D	
	& Machinery	Dr. S. N. Solanki	Professor	M. Tech. Ph. D.	
		Dr. P. A. Munde	Associate Professor	M. Tech. Ph. D.	
		Prof. D. V. Patil	Assistant Professor	M. Tech. NET	
		Dr. G. U. Shinde	Associate Professor	M. Tech., Ph.D. (Mech.)	

 Table 18. Department wise profile of academic staff members

Services of the Assistant Professors and Associate Professors from faculty of Agriculture and research projects such as AICRP on Irrigation Water Management and Dry land Agriculture are spared and/or deputed to support the PG & Ph.D. teaching and research activities at College of Agricultural Engineering. The faculty is sufficient to teach the regular courses, cafeteria courses and guidance for training and research projects of UG, PG and Ph.D. programmes of the college.

6.5.2.3 Credentials of the Faculty

The University has employed competent faculty members well qualified to accomplish the mission and goals of the institute. The highest qualification received by each faculty, related work experiences in the field, honors & awards that contribute to effective teaching and students learning outcomes are presented in Table 20. Credentials of the faculty of the college are presented in Table 20.

Name of	Post	Highest	Credentials			
Faculty		Qualification			1	F
			Date of Joining	No. of research	Awards, professional	Technologies/ processes /
			and	papers and	fellows and other	Implement released/ Patent
			Work	Abstract/work	accomplishments	developed
			Experience	experience		
Department	t of Irrigation	n and Drainage	Engineering	I	1	
U.M.	Professor &	M. Tech.,	25/2/1988	42 research papers	13 Awards including	36 research
Khodke	Asso. Dean		37 years	and more than 100	Radhakishan Shanti,	recommendations and 15
	& Principal	Ph. D.	experience in	abstracts 14 book	Malhotra Best Research	implements released
			teaching,	chapters 4 books	Scientist Award,	production technology.
			research,		Vasantrao Naik	
			extension and		Memorial Gold Medal,	
			administration		Commendation Medal of	
			Implements 4		ISAE	
			research projects		Fellowship of Three	
			of 37 works		professional societies	
H.W. Awari	Professor	Ph. D.(IDE)	28/04/1999	38 research papers	9 awards in social, best	Six release of research
		M.	24 yrs experience	and 25 abstracts	paper etc	recommendations
		Tech.(IDE)	in teaching and			
			research			
S. B. Jadhav	Associate	M. Tech.	03/05/2001	35 research papers	D.G Kulkarni Krishi	Eight research
	Professor	(IDE),	22 yrs teaching	and 25 abstracts	lekhan Puraskar,	recommendations on
		NET,Ph.D.	and research		Commendation	production technology.
			experience		certificate by NAARM,	
					Hyderabad,	
					Best Teacher Award,	
					2014Appreciation cert.	
V. K. Ingle	Assistant	Ph.D.(SWE),	16/09/2016	15 research papers	Best Teacher Award,	Five research
	Professor	M. Tech.	8 yrs teaching	and 15 abstracts	2017.	recommendations on
		NET	and research			production technology

 Table 19 : Credentials of the faculty of College

Name of Faculty	Post	Highest Qualification	Credentials			
			Date of Joining and Work Experience	No. of research papers and Abstract/work experience	Awards, professional fellows and other accomplishments	Technologies/ processes / Implement released/ Patent developed
			experience			
S. N. Pawar	Assistant Professor (Agril. Engg.)	M. Tech. (SWCE) NET	31/07/2004 14 years work experience of research and field work	20 research papers and 10 abstracts	Excellance Award "Avishkar 2015" D.G Kulkarni Krishi lekhan Puraskar, 2009	Four research recommendations on production technology.
R.G. Bhagyawant	Professor	M. Tech.(IDE), Ph. D.(IDE)	29/04/1999 24 years experience in teaching and research	37 research papers and 25 abstracts	4 Awards including best paper, best trainee and social awards	4 research recommendations
Department	t of Soil and V	Water Conserva	tion Engineering			
B. W. Bhuibhar	Associate Professor	M. Tech. (SWCE)	06/11/1991 32 years experience in teaching and research	20 research papers and 10 abstracts	D. G Kulkarni Krishi lekhan Puraskar- 2005	Seven research recommendations on production technology.
M. R. More	Associate Professor	M. Tech., Ph.D. (SWCE)	13/01/2010 Experience of 22 yrs in teaching, research and extension	30 research papers	D.G Kulkarni Krishi lekhan Puraskar, 2001, Laxmikant Kokil Sinchan Lekh Puraskar, 2006 and 2017	Four research recommendations on production technology.
S. D. Payal	Associate Professor	M. Tech. PhD (SWCE)	30/03/2007 Experience of 16 yrs in teaching,	10 research papers and 6 abstracts worked as Nodal		Three research recommendations on Production technology.

Name of Faculty	Post	Highest Qualification	Credentials	Credentials					
			Date of Joining and Work Experience and research	No. of research papers and Abstract/work experience Officer, evaluation and subject specialist for Jal Yukta Shivar	Awards, professional fellows and other accomplishments	Technologies/ processes / Implement released/ Patent developed			
M.S. Pendke	Professor	Ph. D. (SWCE) M. E. (SWE)	22/12/1992 Experience of 30 yrs in teaching, and research	56 research papers and 105 abstracts	8 Awards including best paper, best trainee and social awards	16 research recommendation			
A. M. Kamble	Associate Professor	M. Tech., Ph.D. (SWCE)	9/1/2004 Experience of 19 yrs in teaching, and research	10 research papers and 5 abstracts	NSS Best Programme Officer Award	One research recommendation			
Departmen	t of Basic Sc	iences and Comp	outer Technology						
V. M. Bhosle	Associate Professor	M. Sc., B. Ed.	03/05/2001 Experience of 22 years in teaching and research	7 research papers, 3 abstracts and one book	Recipient of Gold Medal and Cash Prize, PG Programme, Dr BAMU, Aurangabad.	One research recommendation on solar power sprayer			
R. V. Shinde	Associate Professor	M. Sc., B. Ed.Ph.D.	27/09/2007 16 years experience in teaching and research	15 research papers and 5 abstracts	Recipient of Best NSS Programme Officer	One research recommendation on solar power sprayer			
Departmen	t of Renewal	ble Energy Engir	heering	1	1				

Name of Faculty	Post	Highest Qualification	Credentials			
			Date of Joining and Work Experience	No. of research papers and Abstract/work experience	Awards, professional fellows and other accomplishments	Technologies/ processes / Implement released/ Patent developed
R. T. Ramteke	Professor	Ph. D. (RES) M.E.(Ag) (RES)	04/09/1991 32 yrs work experience in teaching, research and Extension	54 research articles and 35 abstracts	Best Oral Paper presentation Award	Ten research recommendations on Renewable Energy gadgets and farm Machinery

Departn	Department of Farm Structures									
S. D.	Associate	Ph D.	06/02/2007	30 research papers	Nominated a	s Senate member of SRTMU, Nanded by	Four research	ch		
Vikhe	Professor	(Civil	29 years work	and 10 abstracts	Governor of	Maharashtra	recommenda	tions,		
		Engg.)	experience in							
		M E (Civil	research &							
		$\nabla \mathbf{L}$	industrial							
		Engg.)	muusutat							
D ((CD	•		•						
Departn	nent of Pro	ocessing and	i Food Enginee	ering						
S. U.	Professor	Ph. D.	24/02/1988	Implemented exte	ernally funded	Best Teacher Award, 2012,	Thirteen research	arch		
Khodke		(Food	37 years work	four research pro	jects on	S. J. Hiran Memorial Award, 2010-11,	recommendati	ion		

		Engg), IIT, Kgp M. Tech. (APE)	experience of teaching and research	processing of oilseed and pulses, value addition of soybean and standardization of banana ripening 40 research papers and 28 abstracts	ISAE, New Delhi. Laxmikant Kokil Sinchan Lekh Puraskar, 2017, First Lady Agricultural Engineer in Maharashtra State Distinguished Service Certificate ISAE One patent on Instant potato and process for manufacturing the same, (2008), Patent	including 4 on processing machineries and 8 on process technologies.
P. G. More	Assistant Professor	M. Tech. (APE), Ph. D. (PFE),	02/01/2010 20 years experience of teaching and research	31 research papers, 14 abstracts	Best Participants award in Winter School Best Participants award in Summer School	Nine recommendations on packing of banana and garlic, value addition of soybean products, fresh sweet corn sheller and RTE carrot slices.
S. R. Garud	Assistant Professor	Ph.D. (CSIR- CFTRI, Mysore)	14/09/2016 Six yrs work experience of teaching, research and extension	Research papers 7 National, 3 International Book Chapters 1 Published, 2 under publication Abstracts 15 in National and International conferences Popular articles 3 in news paper TV Talk 1 with BBC, Marathi		
R.V. Jayebhaye	Professor	Ph. D. (Food Engg), IIT, Kgp, M.	29/04/1999 30 years experience of teaching and research	24 research papers, 12 abstracts National Book Chapters 1, Intern Conf. 05, Popular art -03	Best Oral paper award Best Poster presentation Outstanding work in runoff water harvesting through networking of farm ponds at COA, Latur	

		Tech.(APE)						
~ ~								
S.B.	Associate	M.Tech.,	29/12/2003		12 research paper	rs, 8 abstracts		
Jadhav	Professor	Ph.D.	15years of teach	ning				
		(APE)	and research					
B.P.	Associate	M.Tech.	06/11/1991		20 research paper	rs, 20		
Sawant	Professor	(PFE) IIT	32 years experie	ence	abstracts			
		Kgp PE)	of teaching and					
			research					
ΛΡ	Associate	M Tech	11/02/1002	_	6 rasaarah nana	rs and 2		
A. K.			$\frac{11}{02}$		o research pape.	is and 5		
Mantri	Professor	(APE)	50 years of		austracts			
		()	extension				-	-
			experience					
Denartr	nent of Fa	rm Machina	erv and Power	Eno	tineering			
S N	Drofessor		14/10/1002	50 *	essarch papers	16 Awarda	related to best research and extension work	Pasaarah 10 farm
S. N. Solonki	FIOLESSOL		14/10/1993 20 yrs work	and	63 abstracts	in Form Me	chanization	implements and
SOIAIIKI		(FMPE)	SU YIS WOIK	anu	05 abstracts		chanization	machineries and 2
		M Tech	teaching					research
			research and					recommendations
			extension					recommendations.
ΡΔ	Professor	M Tech	24/03/1994	20 r	research naners	* Radhakish	an Malhotra Award 2009	30 research
т. д. Munde	1 10103501	(FMD)	29 vrs work	and	15 abstracts	ASPEE No	ational level award ISAF 2009	recommendations
munue			experience of	and	15 405114013	TOTLE INC	aronar 10,01 awara, 10/112, 2000	on farm
		Ph.D.	experience of					

		(FMPE)	teaching and research			machineries and implements
D. V. Patil	Assistant Professor	M. Tech., (FMP), NET	30/12/2016 9 yrs work experience of teaching, research and extension	Seven research papers and 3 abstracts	_	3 research recommendations on machines and tools
Dr. G. U. Shinde	Associate Professor	Ph. D. (Mech. Engg.) M. Tech. (Mech. Engg.) M. B. A.	01/02/2006 27 years work experience of teaching and research	31 research papers and 18 abstracts	Best research Reviewer, ICMAME, HongKong Excellence in Applied Research in Farm Machinery, De'commune Foundations, India. 5 Book Chapters	5 research recommendations on Agril. Machines and tools.
Dr.D. D. Tekale	Professor	M. Tech. (FMP) , Ph.D.	02/05/2001 22 years work experience in teaching and research	25 research papers and 30 abstracts		20 research recommendations on Agril. machines and tools

Visit of Faculty Member to Abroad

Dr. Smita Khodke, Head, Department of Agricultural Process Engineering participated as a esteemed panel member in discussions during the workshop on Regional Soy Food Workshop in Kathmandu, Nepal during 22-23 Nov 2022, organized by United States Soybean Export Council (USSEC).

Dr. G. U. Shinde, Asstt. Prof. Mech. Engg., visited following foreign countries for research presentations and mutual research exchange of student, staff and faculty with International Universities.

Valencia-Spain

Completed MoU agreements with University of Valencia, Spain and completed monitoring visits for interdisciplinary research exchanges. Attended organized by training program during 18-29April 2018 by International Exchange Office of Universidad de polytechnic Valencia. Attended interactive sessions between students and faculties of University of Valencia Spain on 26th April 2018 and with Head of International Relations of Universitat Politecnica De Valencia on 29th April 2018.

Madrid-Spain

Completed MoU with University of Madrid, Spain for Mutual Research Exchange and Mobility of Faculty and Students in the field of Agriculture and Food at School of Agricultural and Food Engineering Universitat Politecnica De Madrid on 24th April 2018.

Lisbon-Portugal NOVA Campus

Completed MoU with University of NOVA, Lisbon for Mutual Research Exchange of Faculty and students in the field of design and development of Agricultural and food research technologies by School of Agricultural and Food Engineering, Universidade NOVA De, Lisbon on 20^h April 2018

Antalya-TURKEY

A Mevlana Exchange Programme every year organized by International Relations Office of Akdeniz University, in the field of Agricultural Engineering for students and faculty.

6.5.2.4 Technical and Supporting Staff

The following posts of technical and supporting staff for field experimentation/ laboratory work / workshop/farm work are in place at the college (Table 21).

S. No.	Name of Post	Sanctioned	Filled	Vacant	Faculty recommended by
		post	post	post	the ICAR
	Associate Deen and D	vincinal office	and Contro	l staff fagi	regulatory body
1	Associate Dean and Pl		and Centra		
1	Assu. Section Officer	01	-	01	01
2	Stenographer	01	-	01	02
3	Sr. Clerk	01	01	-	-
4	Jr. Clerk	05	03	02	06
5	Driver/Computer	02	01	01	03
	operator/technician	05	02	02	
6	Mazdoor	05	03	02	-
/	Agril. Assistant	02	01	01	-
8	Peon	05	01	04	02
9	Sweeper	05	02	03	
10	Watchman	01	-	01	-
	Electrician	01	01	-	-
	Department of Irr	rigation and D	rainage En	gineering	2.1
1	PA/Steno	-	-	-	01
2	Clerk	-	-	-	01
3	Lab Assistant	01	00	01	02
4	Peon	-	-	-	01
	Department of Soil a	nd Water Con	servation	Engineerin	g
1	PA/Steno	-	-	-	01
2	Clerk	-	-	-	01
3	Lab Assistant	01	00	01	02
4	Peon	-	-	-	01
	Department of Basi	c Science and (Computer '	Fechnolog	y
1	PA/Steno	-	-	-	01
2	Clerk	-	-	-	01
3	Lab Assistant	01	00	01	02
4	Lab Attendant	-	-	-	-
5	Peon	-	-	-	01
	Department of	Renewable En	ergy Engin	eering	
1	PA/Steno	-	-	-	01
2	Clerk	-	-	-	01
3	Lab Assistant	-	-	-	02
4	Lab Attendant	-	-	-	-
5	Peon	-	-	-	01
	Departr	nent of Farm S	Structures		
1	PA/Steno	-	-	-	01
2	Clerk	-	-	-	01
3	Lab Assistant	-	-	-	02
4	Lab Attendant	01	00	01	-
5	Peon	-	-	-	015

Table 20: Technical and supporting staff of college

Department of Agricultural Process Engineering										
1	PA/Steno	-	-	-	01					
2	Clerk	-	-	-	01					
3	Lab Assistant	01	01	-	02					
4	Lab Attendant	-	-	-	-					
5	Peon	-	-	-	01					
	Department of Farm Machinery and Power Engineering									
1	Senior Research Assistant	01	01	-	-					
2	Lab Assistant	-	-	-	02					
3	Lab Attendant	02	02	-	-					
4	Sr. Mechanic	01	01	-	-					
5	Driver	01	-	01	01					
6	Peon	-	-	-	01					
7	PA/Steno	_	-	_	01					
8	Clerk	-	-	-	01					

Total 39 posts of technical and supporting staff were sanctioned for the college. Out of sanctioned technical and supporting staff, 22 posts are in place and 17 posts are vacant. In addition to sanctioned posts, nine posts of technical and supporting staff are provided by the University to the college. These technical and supporting personnel are involved in conducting practicals, research projects and field experiments field observations, planning and arrangement of exposure visits, demonstration plots and land preparation on instructional farm. while lab attendants are involved in preparation of machines/equipments/instruments/material for regular laboratory practicals, minor repair and maintenance of machines/equipments/instruments. During 2018-19 to 2022-23 on an average 37 contractual skilled and unskilled labours monthly basis were appointed as per the requirement of the college.

6.5.3 Learning Resources

The course teachers use audio visual aids and smart classrooms during conduct of theory lectures while practicals are arranged in respective laboratories, workshops, ELP unit, field laboratories (instructional farm/research farms), computer lab. drawing hall and field visits are arranged, as per the need of course practical.



UG Student delivering seminar under course Seminar (GAE-471) using audio visual aids.

6.5.3.1 College Library (Digital)

The academic staff and students, use and avail the facility available at well equipped Central University Library. The Central Library is well developed and equipped with internet and Wi-Fi facility, Books, national and international research journals and periodicals, magazines, etc. related to course curriculum of UG, PG and Ph.D. programme are available in sufficient numbers in the central library. The University library also has sufficient number of computers and access to internet for browsing various sites, downloading information and for using e-resources (*CERA*).

The college also has separate library comprising of 105 m^2 library hall and 25m^2 attached room with area tables, chairs and seating capacity of 25 students 733 books, 4 daily news papers and internet facility. Daily newspapers are available in library as well as boys and girls hostel (Agrowon, Lokmat, Sakal and Times of India). Library incharge and library assistant are also in-place to look after the day to day management of library. The library opening hours are between 9.00 am to 5.30 pm. The subject wise number of books available in the college library is listed in Table 22.

S. No.	Subject	No of books
1	Basic Science and Computer Technology	79
2	Farm Machinery and Power	81
3	Soil and Water Conservation Engineering	56
4	Irrigation and Drainage Engineering	76
5	Farm Structures	70
6	Agricultural Process Engineering	82
7	General Agril. Sciences	41
8	Competitive Exam Books and Others	248
	Total	733

Table 21: Subject wise books available in conege indrar	Table 21:	Subject	wise books	available in	college library
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College Library

6.5.3.2 Laboratories, Instructional Farm, Workshop, Dairy Plant Veterinary Clinic, Hatchery, Ponds etc.

Details of laboratories under various departments of the college is presented in Table 23.

Table 22: Department wise details of laboratories of the college

Sr. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (sq.m)	Seating Capacity (No. of Students)
1	Irrigation Engineering Lab.	14.10	11.30	159	40
2	Fluid mechanics and Micro Irrigation Lab.	11.30	21.00	237	40
3	Micro Irrigation Field Lab.	100	100	10000	40
4	Geoinformatics Computer Lab.	3.00	4.00	12.00	10
5	Lysimeter-AWS Field Lab.	140	100	14000	40

1. Department of Irrigation and Drainage Engineering

2. Department of Soil and Water Conservation Engineering

Sr. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (sq.m)	Seating Capacity (No. of Students)
1	Soil Mechanics Lab.	10.60	11.15	118	40
2	Surveying and hydrology Lab.	14.05	11.05	158	40
3	Soil and Water Conservation Engineering field Lab.	100	100	10000	40
4	Remote Sensing & GIS Laboratory	6.0	5.0	30	05

3. Department of Agricultural Process Engineering

Sr. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (sq.m)	Seating Capacity (No. of Students)
1	Crop Processing Engg.	11.28	14.32	162	40
2	Food Engineering	8.7	7.4	64	10
3	Quality control (ELP)	12.20	10.80	132	40

4. Department of Farm Machinery and Power Engineering

S. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (sq.m)	Seating Capacity (No. of
					Students)
1	Workshop	10.60	21.80	231	40
2	Farm Power	11.15	21.40	239	40
3	Engineering Drawing Hall	11.15	18.80	198	40
4	Implement Shed	16.50	29.60	488	40
5	Exhibition Hall	10.60	22.00	233	40
6	CAD - CAM	06.00	15.00	90	40
7	Drawing Hall	11.15	17.80	198	40

5. Department of Basic Science and Computer Technology

S. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (sq.m)	Seating Capacity (No. of Students)
1	Computer Lab	10.50	11.15	117	40
2	Physics Lab	10.50	11.70	123	40
3	Language Lab	3.00	5.00	15	40

6. Department of Renewable Energy Engineering

S. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (sq.m)	Seating Capacity (No. of Students)
1	Electrical/Chemical engineering Lab.	10.60	10.70	113	40
2	Renewable Energy	10.60	10.50	111	40
3	Energy Park (Field Lab.)	60.00	75.00	4500	40

7. Department of Farm Structures

S. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (sq.m)	Seating Capacity (No. of Students)
1	Farm Structures Lab.	10.50	22.00	231	40

Lysimeter and Automatic Weather Station (AWS) Field Laboratory

The project on determination of crop coefficient of different crops using lysimetric studies is operational at the experimental farm of Department of Irrigation and Drainage Engineering, . A lysimeter is a measuring device which can be used to measure actual amount of evapotranspiration of plants by recording the amount of precipitation that an area receives and the amount of water lost through the soil and evapotranspiration. Three lysimeters are installed at this experimental field. Data logger is provided to display the output of crop water requirement and quantity of removal of drain water. Similarly Automatic Weather Station (AWS) is installed at the experimental farm to provide daily data of climatic parameters such as maximum & minimum temperature, relative humidity, rainfall, wind speed, wind direction, solar radiation and barometric pressure etc.



Lysimeter field laboratory



Automatic Weather Station Field Laboratory

Micro Irrigation Field Laboratory

College has developed micro irrigation field laboratory on 0.5 ha area. The laboratory has different micro irrigation system filters viz. sand filter, screen filter, disc filter and hydro-cyclone filter and also equipped with ventury for introduction of liquid fertilizers, fertilizer tank and dozer pump. The laboratory has time-based drip automation unit which is very useful for conducting practicals on irrigation systems.

Soil & Water Conservation Laboratory

Soil and water conservation laboratories are equipped with instruments for different types of land survey and levelling, theodolite, total survey station, types of rainfall and runoff measuring instruments/equipments, stage level recorders, 'H' and Parshall flumes and instruments/equipments for measurement of physical properties of soil for conducting the practicals.

In field laboratory 12-compartment runoff plots and farm pond on instructional farm and live watershed model at the college are installed for conducting practicals and demonstration.



Watershed Model

Basic Science and Computer Laboratory

Basic Science and Computer laboratory is equipped with one server, 24 thin clients and 8 desktop PCs, 10 kVA online UPS and software facilities like ARIS/LAN, A to Z Watershed software MATLAB and Simulink, etc.

In addition college has separate physics lab with all required instruments for conduct of practicals of UG, PG and Ph.D. degree programme.

Agricultural Process Engineering Laboratory

Agricultural Process Engineering laboratories are equipped with advanced equipments/instruments like Texture Analyser, Hunter Colori Meter, Water Activity Meter, Extruder, etc. for conducting practicals of all degree programmes.



Agricultural Process Engineering Laboratory

Renewable Energy Park

Renewable Energy Park is spread on 0.5 ha area and is provided with on-field installation of solar water pumping set (capacity 1 hp), solar wind hybrid system (800 W capacity), KVIC and *Din Bandhu* bio-gas plants, tunnel dryer, rock bed dryer, distillation unit, etc and flat plate solar water heater, bio-mass gasifier, solar street lights for conducting practicals and research projects of UG, PG and Ph.D. programme.



Renewable Energy Park

Mechanical Workshop

Mechanical workshop having an area of 286.72 m^2 is developed for conducting regular practicals of the course workshop practice, workshop technology and undertaking jobs of UG students and research projects of PG and Ph.D. students.

The workshop houses four black smithy furnaces, one general lathe machine, shaping machine, pillar drill machine, carpentry lathe, power hack saw, hand cutter, welding and blacksmithy shops and set of different tools required for carpentry fittings. The newly constructed workshop houses CNC lathe, turret lathe, milling machines, shaping machines, hydraulic press, spot welding machine and UTM.

Farm Power Laboratory

This laboratory houses different models, cut sections of engine parts and engine systems, working complete tractor cut model, test rig for engines and one dismantled tractor for teaching, conducting practicals through demonstrations of tractor and its systems.



Demonstration of tractor cut model to Dr. V. D. Patil, former Director of Instructions & Dean

Farm Machinery Laboratory

The laboratory houses different tractor operated, self propelled, bullock drawn and human drawn/operated implements. It also includes implements for tillage sowing, planting, inter culturing, harvesting and threshing, tractor operated back hoe and leveller, precision laser leveller and aero blast sprayer.

CAD-CAM Laboratory is developed with licensed software having capacity of 25 students and advanced facility of design softwares like ProE, Ansys.

Instructional Farm

College has instructional farm of 2.5 ha area and provided with bore well, submersible pumpset, pump house, sub-surface conveyance pipe network, mango plantations on 2 ha area, farm pond of 15 x 15 x 3 m size and 12-compartment run-off plots for conducting student's practicals and research trials of UG, PG and Ph.D. degree programmes.



Instructional Farm and Farm Pond

6.5.3.3 Student READY/ In Plant Training/ Internship/ Experiential Learning Programmes

The course curriculum of UG programme of the college includes in-plant training of four months duration during VIIth semester for students in order to acquire professional skills and to get first hand knowledge of the problems of agriculture and solutions required thereto, pertaining to different disciplines of Agricultural engineering. As part of in-plant training, students of VIIth semester are deputed to different ICAR institutes, National institutes, Government organizations , research centres of SAU'S, Co-operative organizations, Non Government organizations , Private Industries, etc. In the field of irrigation systems, soil and water conservation, meteorology, seed processing, dairy industry, grape production and export agencies, remote sensing and GIS applications, CAD/CAM, tractors and farm machineries, plant protection appliances, bio-fuel producing companies, green house industries and consulting agencies, renewable energy appliances, etc. Details of students of VIIth semester of UG and III semester of PG programme who are deputed for in-plant training during 2018-19 to 2022-23 are presented in Table 24 and Table 25, respectively.

Table 23:	Details of VII	semester	students	of UG	programme	deputed	for	in-plant
tı	raining during 2	018-19 to	2022-23					

Sr. No.	Academic Year	Name of the Company/Organization	No. of Students
1	2018-19	Watershed and Social Development Association, Loni Kalbhor, Tal. Haveli Dist. Pune-412 201	01
		Jain Irrigation Systems Limited, P O Box-72, NH-6, Jalgaon-425 001	04
		Finolex Plasson Industries Private Limited, Plot No 399, USRE, Taluka Maval, Dist Pune-410 506	03
		R G Kasat Industries Private Limited, Bagalkot 587 102	02
		Varun Agro Food Processing Private Limited, Nashik 422 003	03
		CSIR-CFTRI, Mysore 570020	01
		Watershed Organisation Trust (WOTR)'Paryawaran' Behind Market Yard, Ahmednagar-414 001	02
		Krishi Vigyan Kendra, Kharpudi Dist. Jalna	08
		Watershed and Social Development Association, Parbhani.	03
		CIAE, Nabhi Bagh, Bhopal	04
		Aditi CAD CAM, Parbhani.	04

		Aditi CAD CAM Training Centre, Near Shivaji	02
		College, Vasmat Road, Parbhani.	07
		A Tech Dr PDKV Akola	07
		CAD EDGE Software Solutions, Kranti Chowk,	01
		Aurangabad	-
		Vishwakarma Auto-Cad Training Centre, Nanded	01
		Prabhavati Udyog, Parbhani.	02
		JD Info Tech, Aurangabad	01
		MASL, Sangli	01
		Total	50
2	2019-20	People Side Consulting, Pvt. Ltd. Pune	03
		Maharashtra Tractor Training Institute Aurangabad	03
		Hi-Tech CAD CAM CAE Training Centre Pune	02
		Aditi CAD CAM Centre Parbhani	02
		CAD EDGE Software Solutions Aurangabad	02
		R. G. Kasat Industries Pvt. Ltd., Bagalkot 587 102.	02
		Varun Agro Food Processing Pvt. Ltd., Nashik 422003.	03
		CSIR-CFTRI, Mysore 570020.	01
		General Mills, Industrial Area Malegaon, Dist. Nashik	03
		MAHABEEJ, Parbhani. Maharashtra State Seed Corporation Ltd. Akola	02
		Annapurna Food Products, Aral Tq. Basmat, Dist. Hingoli	02
		Hi-Tech CAD CAM CAE Training Centre Pune	01
		NAHEP. Department of UES and EE, College of Ag. Engg. And Technology, PDKV Akola	08
		Regional Remote Sensing Centre, Nagpur	03
		Krishi Vigyan Kemdra, Kharpudi Dist. Jalna	05
		Akash Agri. Solutions Pvt. Ltd. Sillod Dist. Aurangabad	02
		JD InfoTech, Aurangabad	06
		Netafim Irrigation Pvt. Ltd. Pune	05
		JD InfoTech, Aurangabad	03
		Agrinext consultancy, Pune	06
		Watershed Organisation Trust	04
		(WOTR)'Paryawaran' Behind	
		Market Yard,	
		Anneunagar-414 001	62
		I Utal	02

3	2020-21	Bajrang Engg. and Fabrication Works, Ahmednagar	03
		Aditi CAD CAM Parbhani	07
		CAD EDGE Software Solutions, Aurangabad	04
		SHEFA Computers Islampur	01
		MSSC (Mahabeej), Parbhani	04
		Grain Span Nutrients Pvt. Ltd., Ahmedabad	02
		ITC Ltd. Food Division, MIDC Ranjangaon Pune	02
		NAHEP CAAST MPKV Rahuri	01
		Padmini Food Products, MIDC Udgir	03
		Navjivan Vocational Training Institute, Parbhani	01
		Sourkranti Pvt. Ltd. Pune	01
		Geo-Tech, Aurangabad	05
		WOTR, Ahmednagar	01
		Department of Agriculture, Govt. of Maharashtra Parbhani	06
		Hydroplast Irrigation System Ltd.	01
		Universal Agri. Tech. Pvt. Ltd. Deulgaon Raja, Dist. Buldana	02
		KVK Tondapur Hingoli	01
		Sneha Agrotech, Jawala Bazar Hingoli	01
		Agrinext Consultancy, Pune	07
		Erosia Micro Irrigation Pvt. Ltd. Pune	03
		Geo-Tech, Aurangabad	03
		Total	59
4	2021-22	Department of Agriculture, Govt of Maharashtra	05
		Hydroplast Irrigation Systems, Ltd.	05
		NAHEP-DFSRDA, VNMKV, Parbhani	04
		Varun Agro Food Processing Pvt. Ltd., Nashik	05
		CSIR, CFTRI, Mysore	02
		Grain Span Nutrients Pvt. Ltd.Ahmedabad (Gujrat)	02
		Geo-Tech Institute, Aurangabad	12
		Mahindra and Mahindra Ltd. Nagpur,	03
		Escorts Training and Development Centre, Bangluru	06
		NAHEP-CAAST,VNMKV, Parbhani	09
		Northern Region Farm Machinery Training and	04
		Division of Land Use Planning ICAR-NBSS & LUP	04
		Naonur	VT
		Watershed Organisation Trust (WOTR), Ahmednagar.	07
		Frosia Microirrigation. Pvt Limited	05
		Total	73

5	2022-23	Agrinext Consultancy, Pune	16
		Rivulis Irrigation, Pune	04
		Indian Instittute of Soil and Water Conservation	08
		(ICAR) Vasad, Gujrat	
		Watershed Organisation Trust (WOTR), Ahmednagar.	02
		Division of Land Use Planning, ICAR-NBSS & LUP,	05
		Nagpur	
		CCRD, Murtizapur, Akola	04
		Gokul Milk Processing Unit, Kolhapur	05
		Grain Span Nutrients Pvt. Ltd., Ahmedabad (Gujrat)	04
		KK Herbal Industries, Nanded	02
		Sonalika Industries, Pune	06
		Aditi CAD/CAM Centre, Parbhani	08
		New Balaji Enterprizes, Aurangabad	03
		Total	67

Table 24: Details of PG programme students deputed for in-plant training during2018-19 to 2022-23

Sr. No.	Academic	Name of the Company /Organization	No. of
	Year		Students
1	2018-19	Netafim Irrigation Private Ltd., Pune.	02
		Total	02
2	2019-20	Indian Institute of Remote Sensing (ISRO),	03
		Dehradun	
		Total	03
3	2020-21	NAHEP, Jabalpur	02
		NAHEP- CAAST, Rahuri	01
		Total	03
4	2021-22	Netafim Irrigation Private Ltd., Indore (MP)	02
		Indian Instittute of Soil and Water Conservation	02
		(ICAR) Vasad, Gujrat	
		Total	04
5	2022-23	Not yet deputed	
		Total	12

ELP Details and Profit Sharing

A Model Demonstration Unit for Processing of Pulses and Oilseeds under ELP was started in the year 2012-13 in the Department of Agricultural Process Engineering of College with one-time grants of 92 lakhs. In this unit, institutional and entrepreneurship-oriented soymilk and soypaneer pilot plant, bakery, extruded products and pulse milling pilot plant for production of pulses-based product are established. The demonstration of process technology of pulses and oil seed-based products were conducted and organized entrepreneurship programme for the upcoming entrepreneurs and students are organized.

In the seventh semester, students are exposed to In-Plant training in industries and research organization instead of Experiential Learning Programme. The practical classes of Cafeteria courses (UG) and practical classes of PG and PhD courses are conducted in this unit. Number of demonstrations and training programmes for KVK scientists, new entrepreneurs, farmers, self help groups (SHG) and students are organized at ELP unit of Agricultural Process Engineering on "Processing of pulses and oilseeds."

Profit Sharing

Though the ELP unit is not functioning on profit sharing basis, it is found very beneficial in transfer of technology on pulses and oilseeds processing and their value addition thereby setting foundation to graduates and self-help groups for the start up of entrepreneurship in rural areas.

Experiential Learning Programme

Experiential Learning Programme on 'Processing of Pulses and Oil seeds' unit is established for the actual demonstration and trainings of students of UG, PG and PhD programme during 2012-13 with one-time grants of 92 lakhs.. Under this, institutional and entrepreneurship-oriented soya milk and soya paneer pilot plant, bakery unit, extruder and pulse milling pilot plant for production of pulse-based products are established. ELP unit is used for conducting demonstrations; practical's and research projects for UG, PG & Ph.D. students. In UG curriculum under **Student READY (Rural and Entrepreneurship Awareness Development Yojana)**, students have registered the Course No. GAE-475-1, Credits (0+ 10). The practical classes of Elective courses (UG) and practical classes of PG and PhD courses are conducted in this unit. Experiential Learning provided the students an excellent opportunity to develop analytical and entrepreneursial skills in various processing technologies of cereals, pulses and oilseeds. Students and entrepreneurs got the knowledge through meaningful hands-on experience, confidence in their ability to establish cottage level processing industries.

Number of demonstrations and training programmes for KVK scientists, new entrepreneurs, farmers, self help groups (SHG) and students were organized in this ELP unit Process technologies are developed for soya milk, soya paneer, okra-based bakery products, dehydrated chunks, extruded products and soya nuts, pearl millets kharodi, oil extraction from turmeric leaves and soychikki. Electrically operated roaster cum puffer and LPG operated Puffing cum popping machine were designed and fabricated for the production of puffed/ popped products from sorghum, pearl millets, maize, groundnut, soyabeam and Bengal gram.



Visit of Dr. Anwar Alam, Ex DDG, ICAR, New Delhi and Dr. V. M. Mayande, Ex VC, Dr. PDKV, Akola to ELP unit

Impact

- Product Developed Soymilk and soypaneer packaging technology, okara based biscuits & extruded products, dehydrated chunks and puffed soynuts, groundnuts, and *phutane*, popped products like pop corn and sorghum pops, and soychikki.
- Machineries developed: Electrically operated Roaster cum puffer, Multigrain puffing cum popping machine.
- iii) Entrepreneurs started their cottage level industry of Soyaproducts.
- iv) Student trained (year wise)/total 30 students/ year.
- v) Alternate use of facilities created Used for conducting demonstration, practicals and research projects for UG, PG & Ph.D. students. Also used for organizing training for self help group (SHG), farmers and entrepreneurs.

6.5.3.4 Curricula Delivery Through IT (Smart class rooms/interactive board etc.)

College has four classrooms, each of about 130 m² area with dual desks having seating capacity of 75 each. Two classrooms are developed into model and smart classrooms equipped with all sorts of audio visual aids and facilities (LCD projector, *KYAN* system, inters active boards).

6.5.4 Student Development

Overall student development is achieved by integration of educational programme and organization of series of lectures of eminent personalities from various fields, exposure visits and student's activities under NSS and co-curricular programmes. Co-curricular activities such as sports, cultural activities, litreary events, and celebration of special days are regularly organized at college. Students are also encouraged and facilitated to participate in inter-collegiate sports and cultural events organized by university and other organizations.

College organizes Ganesh festival, Mahatma Gandhi birth anniversary, Birth Anniversary of Chhatrapati Shivaji Maharaj and birth anniversary of Bharat Ratna Dr. B R. Ambedkars, Yoga day, Reader's Inspiration day, Youth day, Women's day, etc. During these students are encouraged to actively participate and deliver speeches, to perform the acts, cultural programmes, etc.



Students of the college participating cultural activity (Ganesh festival)

Regular physical health check-up camps and blood donation camps are arranged through Physician and Incharge, University Health Centre, Parbhani. Physician gives an advice to the individual students regarding general physical health, diet habits, life style, yoga and exercise, during the camp.



Health check-up camp organized for students at University health centre Educational tour cum exposure visits

Students' educational tour cum exposure visit to watershed development projects, research institutes, public and private sectors related to irrigation systems, seed processing, tractor and farm implements, dairy, renewable energy systems and allied Agricultural industries, SAUs and ICAR institutes, etc. are arranged for their personal and professional development.



Visit of students to Jain Irrigation System Ltd., Jalgaon



Visit to Shaktiman and Tirth agro Tech. Pvt. Ltd.



Industrial exposure to students about farm implements and machinery



Visit to ICAR-NRSC, Pune

Visit to Model Watershed Village Hivare Bazar.



Studnets visit to Sona Polyplast Kopargaon


Visit of students to UAS Banglore and CSIR-CFTRI Mysore

6.5.4.1 Student intake and attrition in the UG, PG, Ph.D Programme for last five years

Yearwise student intake and attrition of UG, PG and Ph.D. Programme for the period 2018-19 to 2022-23 is presented in Table 26.

	B. Tech. Agril. Engg.							
Batch		Students a	admitted	Attrition (%)				
	М	0/0	F	0/0	Μ	0/0	F	0/0
	(No).	70	(No).	70	(No).	70	(No).	70
2018-2019	46	75.4	15	24.6	02	4.34	01	6.66
2019-2020	52	76.47	16	23.52	02	3.84	00	0.0
2020-2021	44	62.5	20	31.25	00	0.0	00	0.0
2021-2022	45	78.94	12	21.05	01	2.22	00	0.0
2022-2023	21	53.84	18	46.15	00	0.0	02	11.11

Table 25: Students Intake and Attrition of B. Tech. programme

M- Male student, F- Female student

6.5.4.2 Average Number of Students in Theory and Practical Classes

The average number of students of UG, PG and Ph.D. programme, allocated for theory and practical classes are presented in Table 27.

Table 26: Average number of students of UG, PG and Ph. D. programme allocated

per batch for	• theory and	practical classes
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S. No.	Name of the degree	No. of students in		No. of stu	udents in
	programme	theory class	s per batch	practical cl	ass per batch
		2017-18 to	2022-23	2017-18 to	2022-23
		2021-22		2021-22	
1	B. Tech. (Agril. Engg.)	64	80	16	20
2	M. Tech.	16	16	16	16
3	Ph. D.	07	07	07	07

6.5.4.3 Admission Process

- 1. Mechanism of admission for UG, PG and Ph.D. programmes.
- 2. Fees payment mechanism.
- 3. Registration procedure.
- 4. Academic schedule

Mechanism of Admission

The admission process for UG, PG & Ph.D. programme of the college is implemented online. The admission of UG in all four SAU's are centrally conducted by CET cell, Maharashtra and supervised by MCAER, Pune whereas the admissions of PG and Ph.D. Programme in all SAU's are centrally conducted and supervised by MCAER, Pune.

Undergraduate Programme

After declaration of XII Std. (Science) result MCAER, Pune publishes the notification for online admission for various degree programme in all four SAU's in Maharashtra through news papers and website of MCAER and CET cell Maharashtra. For B. Tech. (Agril. Engg.), qualifying examination for admission is as follows:

1. XII Std. (Science) passed in 10+2 pattern from Maharashtra State Board of Higher Secondary Education or an equivalent Examination, with PCM or PCMB and English.

2. Those who have not offered Biology shall have to complete deficiency courses as prescribed by respective University except for the admission for UG degree programme of Agril. Engineering.

3. Common Entrance Examination MHT-CET/JEE organized by Competent Authority during academic year in PCM subject.

PG and Ph. D. Programme

Common Entrance Test is being conducted for admission in PG and Ph. D. degree programmes admission by MCAER, Pune and subsequently followed by CAP (Central Admission Process) admission rounds.



Flow chart for Admission Process

2) Fees payment mechanism

The fees structure for each degree programme is followed as per the MCAER guidelines and fees payment is accepted in online payment mode.

3) Registration procedure for Degree Programme

- a) Payment of University/ College/ Hostel fees and other fees.
- b) Enrollment of a student in various courses in consultation with the respective counsellor and depositing the roster form duly filled in and signed by the student, counsellor and concern course teacher.
- c) A student seeking admission to semester other than the first shall be permitted by the Associate Dean & Principal on payment of late fees of Rs. 100 per day up to a period of five

working days notified for registration. No student shall be permitted on the expiry of this period.

- d) After receipt of the enrollment from students, the Associate Dean & Principal of the college shall prepare the list of students and allot the enrollment number to each student and submit enrollment list to the Registrar office.
- e) A student shall be allowed to register for the courses of 5th, 6th, 7th and 8th semester if he has completed all the courses of 2nd, 3rd, 4th and 5th semester, respectively.

4) Academic schedule publication (Academic Calender) :

Academic schedule for registration, Mid-term, Semester end theory and practical examination of UG, PG and Ph. D. programme is prepared well in advance as per the approved academic schedule of MCAER, Pune.

6.5.4.4 Conduct of practicals and Hands on Training

As per the course curriculum of degree programmes, the practicals and hands-on training per course curriculum of the UG, PG and Ph.D. degree programmes are conducted in the respective departments, laboratories, field laboratories, on instructional farm or on the University research farms (Dry land Centre, Water management Centre, Dairy Farm, Agricultural Meteorology, Demonstration Farm, Tissue Culture, Cattle Cross Breeding Project, Central Nursery, Central Farm) and also outside campus in industries and enterprises.



Conduct of practicals and demonstration on the farm



UG students performing hands on training

The practicals are conducted as per the lesson plan approved in the common syllabus meeting using the required instruments/equipments/ processes/methods and facilities. The methodology/ procedure/techniques are first demonstrated to the students and then the students are asked to do the laboratory experiments individually and to record the observations. The outcome of the experimental result is noted by the students in the practical manual/observation sheet/survey book, analysed and inferences are drawn. After verification of the practical book/drawing sheet/maps/drawings by the concerned course teacher he certifies the work. For practicals of courses on computer applications, individual student get separate PC for performing small projects..

Hands on training is conducted in the field or in the field laboratories where students perform individually or in group, record observations, design or analyze and prepare report, drawings or maps and supplement to the practical manual and certified. Details regarding hands-on training of UG, PG and Ph.D. programmes is furnished in Table 28 and Table 29.

6.5.4.5 Examination and Evaluation Process

Separate examination branch is in-place for UG programme of the college whereas PG education branch for PG and Ph D programmes for conducting mid-semester and semester end theory examinations. The examination branch has a separate examination hall of 275 m² area and office, equipped with dual desk single student seating arrangement for about 150

students, CCTV camera network and 10 kvA UPS. For efficient monitoring and control of examinations, Senior Supervisor and Nominee of Associate Dean are appointed for semester end theory examinations.

Semester End Theory Examination (SETE), for 80% marks of the courses is conducted commonly by MAUEB, Pune and evaluation of answer sheets is done at university level under Central Evaluation Process.

Semester end practical examinations of UG, PG and P. D. programmes are conducted in the respective laboratories of the college. For monitoring and evaluations of practical examinations, course-wise external examiners from other colleges are nominated by the University.

Semester end practical examination is conducted as per the schedule, declared by MAUEB, Pune. Under course credits system, for one credit of practicals, 50 marks are allotted and the student is examined for 40 marks during practical examination, while 10 marks are given as internal evaluation on the basis of student's performance during practicals and preparation of assignments and practical record. Practical examination is conducted by external examiner and results are submitted to the Registrar office for compilation and declaration. The online access is provided to examiners for filling of marks through software.

The evaluation of students registered for course is done through examinations. Course credit system is followed for the UG programme. For one credit course, 50 marks are allotted. For theory credit mid-term examination is of 20 % marks and semester end examination is of 80 % marks. The mid- term examinations are arranged and evaluated at college level by the respective course teacher and monitored by Associate Dean while semester end theory examination question paper is set at MAUEB, Pune.



UG students appearing for semester end theory examination of monsoon semester

Table 27: Examinations and evaluation of students

Examination	% of Marks						
Internal	20						
External	80						
Frequency of student Evaluation (Per cent Weightage per credit)							
After 45 days from start of semester	20						
At End of semester	80						
Mode of Students Evaluation (Per cent weightage per credit)							
Mode of evaluation	% of Marks						
Mid term examination	10						
Assignment/term paper	5						
Semester End Theory / practical examination	80						
Practical Manual / GP	5						

Result of college students

Result of graduating student of the UG, PG & Ph. D. programme of the college during 2018-19 to 2022-23 is presented in Table 31 & Table 32, respectively.

Year	No	of stu passo	idents ed	Firs di	t class stinct	s with ion	F	First C	lass		Othe	ers
	M	F	Total	Μ	F	Total	Μ	F	Total	M	F	Total
2018-19	34	13	47	4	1	5	20	9	29	10	3	13
2019-20	43	7	50	1	0	1	22	5	57	20	2	22
2020-21	46	13	59	0	0	0	13	8	21	33	5	38
2021-22	47	15	62	7	5	12	21	7	28	19	3	22
2022-23	51	16	67	10	2	12	41	14	55	0	0	0
Total	221	64	285	22	8	30	117	43	160	82	13	95
Per cent	77.54	22.46	-	7.72	2.81	10.53	41.05	15.09	56.14	28.77	4.56	33.33

 Table 28: Performance of UG students during 2018-19 to 2022-23

M- Male student, F- Female student

During the period from 2018-19 to 2022-23, a total of 285 students passed out the UG degree programme of the college. Out of which, 10.53 % students passed in **First class with Distinction**, 56.14 % students passed with **First division** and 33.33 % in pass grade.

6.5.4.6 NCC/NSS/RVC Units

The college has NSS unit with Programme Officer and approved capacity 50 student volunteers.

The various activities undertaken by NSS unit of the college are as:

• Regular Social Service under which NSS student volunteers have to complete 240 hrs of

many social activities for the social welfare and civic activities are undertaken during two years of tenure.

- The NSS unit having 100 NSS volunteers organizes and undertakes different regular activities like Adventure Camp, National Republic Parade, Heart fullness Camp, Disaster Management Camp, Plantation, Cleaning campaign, AIDS awareness camp, Blood donation, Flag march, all Jayantis, Youth Day, Women's day during 2018-19 to 2022-23.
- The NSS unit of the college also organizes special camps in rural areas around the campus. Locations, number of student volunteers and special activities undertaken in NSS special camps during 2018-19 to 2022-23 are presented in Table 31.

Year	Date of Camp	Particulars of activity	No. of NSS	Place
	•		volunteers	
2018-19	13.03.2018 to 19.03.2018	Jal Din, Kisan rally, health check- up, cleaning campaign, tree plantation, cultural programmes	50	Sayala Tq. and Dist. Parbhani.
2019-20	25.03.2019 to 31.03.2019	Jal Din, Kisan rally, health check- up, cleaning campaign, tree plantation, cultural programmes	40	Karegaon Tq. and Dist. Parbhani.
2020-21	03/03/2021 to 09.03.2021	Jal Din, Kisan rally, health check- up, cleaning campaign, tree plantation, cultural programmes	40	At respective lovcations of students in online mode due to corona
2021-22	02.03.2022 to 08.03.2022	Jal Din, Kisan rally, health check- up, cleaning campaign, tree plantation, cultural programmes	40	Sayala Tq. and Dist. Parbhani.
2022-23	28.12.2022 to 03.01.2023	Jal Din, Kisan rally, health check- up, cleaning campaign, tree plantation, cultural programmes	50	Sayala (Khating) Tq. and Dist. Parbhani.

 Table 29 : Details of NSS special camps organized during 2018-19 to 2022-23

Regular activities under NSS were conducted during 2018-19 to 2022-23 such as tree plantation, Swachhta Abhayan, AIDS awareness program, Blood donation program, Anti tobacco day, World environment day, partition Remembrance Day, etc.

Participation in State/National level NSS Camps

- NSS volunteers; Mr. Shailesh Londhe, participated in Republic Day Parade Selection Camp organized by *Shivaji University, Kolhapur* during September 28 to 30, 2022.
- Ms. Gayatri Wani, participated in Adventure Camp at Chikhaldara, Dist. Amravati during November 2-06, 2022 organized by NSS Cell, Dept. of Higher and Tech.

Education, Government of Maharashtra and Sant Gadge Baba Amravati University, Amravati.

- Mr. Adityaraj, Ms. Kshitija Maske participated in National level Disaster Management Camp "AVHAN" held at Kavyitri Bahinabai Chaudhary North Maharashtra University, Jalgaon, during December 19-28, 2022.
- Nine Volunteers Viz. Gayatri Wani, Aniket Chavan, Gajanan Chavan, Hasmi Shahejad, Dipak Late, Mayur Aarak, Tanmay Mukkirwar, Khan Imad Ahemad, Gopal Ingle were participated in Heart fullness Camp organized by ICAR, New Delhi at Kanha Shanti Vanam, Hyderabad.
- NCC Unit: A unit of NCC is at central campus of university, students of this college are participating in NCC and number of students who have passed B and C Certificates examination is presented in Table 34.

NSS Volunteers and institute Achievement (Awards/Recognition/Medals) during last 5 Years (2017-18 to 2022-23)

· · · ·			
Year/	Name awards/	Particulars	Beneficiary
Period	Recognition /		Particulars
	Medals		
2018-19	NSS Best Volunteer	By Ministry of Higher & Technical	Mr. Vishal D. Kalbande
	Award	Education, Govt. of Maharashtra	
2018-19	NSS Best Progrmme	By Ministry of Higher & Technical	Prof. Sanjay N. Pawar
	Officer Award	Education, Govt. of Maharashtra	
2018-19 2018-19	NSS Best Volunteer Award NSS Best Programe Officer Award	By Ministry of Higher & Technical Education, Govt. of Maharashtra By Ministry of Higher & Technical Education, Govt. of Maharashtra	Mr. Vishal D. Kalband Prof. Sanjay N. Pawar



Plantation at Railway Station, Parbhani

Cleaning drive at Railway Station, Parbhani





Celebration of Harmony Day



YOGA Day

Cleaningness Rally



Cleaningness Rally



NSS- Best Volunteer Award to Mr. Vishal Kalbande by auspicious hands of Mr Uday Samant, Minister Higher Education, MS



Remembrance of Partition Day at College



Mahatma Gandhi Jayanti and Swachhata Bharat Abhiyan

Plantation Programme



NSS Special Camp



NSS- Best Programme Offiucer Award to Er. S.N. Pawar by Mr. Uday Samant, Minister Higher Education, MS

6.5.4.7 Language Laboratory

A language laboratory is in-place in the Department of Basic Science and Computer Technology department which is used for language teaching in the college.

A language phonetic software and online freeware is made available to the students of all degree programmes to facilitate proper understanding of pronunciation of English language. It is required for personality development and to have a good command on the language for communication. This helps the students to face interview effectively. Language laboratory is useful to students of various states of the country to achieve perfection in language learning, speaking and writing.

6.5.4.8 Cultural Center

The college has A.C. auditorium cum cultural centre with built up area of 175.82 m² and seating capacity of 200 students. Cultural cell has music instruments like harmonium, tabla, dholaki, synthesizer, drums, guitar, sound amplifier, speaker, mikes, etc. College also has permanent open theatre of size 90 sq. m for organization of cultural programmes.

Students are encouraged to play instrumental and vocal music and to participate in cultural events organized on the eve of special day celebrations at college and in inter-

collegiate cultural events, organized by the University. The students also use the cultural cell for interaction, other social activities and celebrations.

Every year programmes like Genesh festival, Shivaji Maharaj Jayanti, Dr. Babasaheb Ambedkar Jayanti, Teachers day, Engineers day, Freshers welcome and orientation, farewell to the final year students etc. are conducted by cultural cell of the college.



Personality development programmes are regularly arranged for UG

6.5.4.9 Personality Development

Personality development programmes are regularly organized in College to enhance the confidence level among students, to create awareness and enthusiasm and to work hard for social and national causes among the students. Special lectures and counseling by the eminent personalities from management, general knowledge, personality development, etc. are arranged to improve the communication skills and to help in preparation of competitive examinations. Details of activities arranged for the students during 2018-19 to 2022-23 are given as:

- A motivational speech of Shri. Prakash Shinde, Squadron Leader on Opportunities for Agroneers in combined Defence Services was organized on 28th Sept. 2018.
- One day workshop on scope and opportunities for Agri. Engineers in tractor industry was organized at college for B.Tech (Agril. Engg.) Students. Er. Anand Parey, State Manager, TAFE Ltd., Chennai was the chief guest for the function.
- The ICAR sponsored two days training cum Workshop on Personality Development and Soft skills from 29th and 30th March 2019 will be organized for B.Tech (Agril. Engg.) Third year and M.Tech students. The on campus workshop will be conducted by Communi care training and content solutions, Pune.
- Two days training cum workshop programme on Personality Development and communication skills was organized during 29-30th March, 2022 for CAET, Parbhani

students under the grants of Human Resources Development Plan of ICAR-SC Sub Plan 2021-22.

- The programme on Engineer's Day was organized on 15/09/2021 with the theme "Opportunities for Agricultural Engineers in public and private sectors". Alumni of CAET, Parbhani working in different sectors were invited for delivering talks. The speakers Er. Dattaraya More, Er. Deepak Bhapkar, Er. Suyog Khose, Er. Sandeep Wayal and Er. Venkat Shinde have delivered lectures during this programme.
- Organized online counselling programme on "Personal interview preparation for placement in irrigation industry "on 04/08/2021 for final year B.Tech (Agril. Engg.) students.
- The off-campus interviews of VnF ideas Private Limited, Drip Tech Pvt. Ltd., Jain irrigation system Ltd., New Holland Pvt. Limited, Mitra Agro Equipments Pvt. Ltd, Mahindra irrigation system limited, Rivilus irrigation system limited, Dhanuka irrigation systems limited, Netafim irrigation system Limited etc. Companies were organized in the year 2021-22.
- Two days training cum workshop programme on Personality Development and communication skills was organized during 29-30th March, 2022 for CAET, Parbhani students under the grants of Human Resources Development Plan of ICAR-SC Sub Plan 2021-22.
- The programme on Engineer's Day was organized on 15/09/2021 with the theme "Opportunities for Agricultural Engineers in public and private sectors". Alumni of CAET, Parbhani working in different sectors were invited for delivering talks. The speakers Er. Dattatraya More, Er. Deepak Bhapkar, Er. Suyog Khose, Er. Sandeep Wayal and Er. Venkat Shinde have delivered lectures during this programme.
- Organized online counselling programme on "Personal interview preparation for placement in irrigation industry "on 04/08/2021 for final year B.Tech (Agril. Engg.) students.
- The off-campus interviews of VnF ideas Private Limited, Drip Tech Pvt. Ltd., Jain irrigation system Ltd., New Holland Pvt. Limited, Mitra Agro Equipments Pvt. Ltd, Mahindra irrigation system limited, Rivilus irrigation system limited, Dhanuka irrigation systems limited, Netafim irrigation system Limited etc. Companies were organized in the year 2021-22.
- > Active participation in Engineers Day Programme in last 05 years.

- Organized on and off campus interview for private and NGO companies Viz. Mahindra and Swaraj Pt. Ltd., TAFE, Chennai, Sonalika International Limited, Shaktiman Agro Industries limited, NETAFIM Irrigation Jain Irrigation, Rivilus Irrigation, Kothari Irrigation, Bhumi polymers Limited, Krishidhan Pvt. Ltd., Rohit Agro Industries Pvt. Ltd, Drip Tech Irrigation, Mapro Pvt. Ltd. Etc. Companies during year 2018-2023.
- Placement cell worked closely with consultancies involved in organizing job fairs in which the cell has close licensing with Global placement, Hyderabad and People side consultancies, Pune.
- Created awareness among UG, PG and Ph.D students on scope and opportunities for Agricultural Engineers in various tractor, irrigation and other industry companies in different programmes like orientation programme and through special lectures.
- Organized test series for students for preparation of various competitive examinations of ICAR/MCAER/GATE.
- Completed enrolment of CAET, Parbhani as an institution for conducting various trainings at NATS portal of Govt. Of India.



Relevant Photographs

Campus placement of Bhumi Polymer Limited, Rajkot held in 2018



Engineers cum Teachers Day celebration



ICAR funded workshop on skill and personality development -2019







Online Campus interviews of Kothari Group of India



Online Campus interviews of Kothari Group of India



Organization of personality development workshops of Dr. B. Shivaprasad, Corporate Trainer, Hyderabad and Ex. student and PSI, Mumbai Police Ms. Anjali Wani

6.5.5 Physical Facilities

The college has self contained campus with college building having facilities like well furnished class rooms, well equipped laboratories with sophisticated equipments/ instruments, library, play grounds, hostel building and residential facility for hostel warden and Associate Dean. Facilities pertaining to sports, gymnasium, central library, girl's hostel, faculty residential facility and health clinic are in-place at University level and are located within the campus. The details of infrastructure available is presented in Table 35.

S.	Physical Facility	Particulars of physical facility				
No.		No. of	Plinth Area	Capacity	Adequate	
		units	sq. m		(Yes/ No)	
1	College building		5951.55		Yes	
2	Administrative office	01	177.84		Yes	
3	Classrooms	04	552.24		Yes	
4	Laboratory	12	2079.72		Yes	
5	Library	01	102.00		Yes	
6	Training and Placement cell	01	90.00		Yes	
7	AICRP on UAE	02	299.00		Yes	
8	Boy's hostel (Sahyadri)	01	1057.00	140	Yes	
9	Girl's hostel (Prabhavati)	01	651.00	40	Yes	
10	Sports complex and play grounds	03	13410		Yes	
11	Guest House					
12	Canteen	01	311.60	60	Yes	
13	Health clinic					
14	Workshops	01	286.72		Yes	
15	Meeting	01	132.16		Yes	
	Room/ Faculty club					
16	Auditorium/ Conference	01	175.82	200	Yes	
	room/Recreation room					
17	Other (Specify)	01	140.00		Yes	
	Open stage for cultural events					
18	Other (Specify)	01	20.00		Yes	
	Ladies special room					
19	Music/Recreation Room	01	52.50	20	Yes	

Table 30: Physical facilities at college and campus

6.5.5.1 Hostel

College has hostel facility for the UG, PG and Ph. D. students separately for the boys and girls. The PG and Ph. D girl students are accommodated in the common girls hostel facility available at university level in the Divakar Ravte and Jijaoo girls hostel whereas for UG girls separate College hostel Prabhavati is provided.

The UG and PG & Ph. D. boys' student are accommodated separately in two different hostels namely Sahyadri and Deogiri boys' hostel. College has hostel for UG boys with accommodation capacity of 140 students with common facility of wash rooms for each wing. Two students of UG programme are allocated in each room of the hostel. There are two mess facilities provided in the hostel, with R. O. drinking water system. The hostel is also provided with common T.V. hall, which also serve the purpose of recreation and function room. Arrangements are made for daily cleaning of rooms, corridors, facilities and premises. Hostel is also provided with RCC cycle cum vehicle shed, water storage tank and bore well with submersible pump set. Water supply to the hostel is through University water supply system. Indoor games facility (chess and carom) is available at boys hostel. For emergency medical help, First Aid Box is maintained in Hostel Office room and college vehicle is kept always ready and is provided, when need arises during odd hours. Details of hostel facilities of the college are presented in Table 36.

Sahyadri Boys Hostel								
Name of the facility	Particulars	Capacity/ frequency	Remarks					
Accommodation	Sahyadri boys hostel,70 rooms of size 3.8 m x 3.8 m and 2 students per room.	140 students	PG/PhD Boys are accommodated in Devgiri Hostel common for two faculties Food Technology & Agril. Engineering					
Mess	 Run through contract system Run through co-operative system 	70 students 70 students	Contractor is appointed having licence of food & drugs department					
Drinking water	R .O With 500 lph capacity established in 2012-2013	500 lph	Maintained by ACMC every year					
Library	Students uses central VNMKV Library and CAET, Library.	500 students	-					
Wi-Fi	Wi-Fi System established in 2016-2017	5 routers ,6 core fibre and media converter is provided	-					

Table 31. Details of facilities available in the Hoster	Table	31:	Details	of f	facilities	available	in	the Hostel
---	-------	-----	---------	------	------------	-----------	----	------------

Recreation/in-door	T.V Hall of size 7.30 m x 4.05	38 inch T.V	
games	m		-
	Carram set and chess set	02	
Emergency medical	Available at central health	-	First Aid Box
facilities	centre of VNMKV, Parbhani.		available in
			Hostel Office
Cleaning of hostel	It is done with labour through	daily	-
& premises	contractor		
Transport facilities	Students use their motor bike,	-	-
	bi-cycle to attend library. In		
	emergency vehicle from ADP		
	Office is provided		
Problem redressal	Through various committees	-	-
system (grievances	like disciplinary committee		
system)	and hostel management		
	committee and also through		
	advisory system		

Prabhavati Girls' Hostel							
Name of the facility	Particulars	Capacity/ frequency					
Accommodation	10 rooms, size, 4.75 m x 3.25 m and accommodation capacity four students per room.	40 students					
Mess	Rooms, size, 4.82 m x 6.63 m Only 40 students are staying in hostel so students are availing mess facility of other girl's hostel near Prabhavati hostel						
Drinking water system	 Water purification system (R O) Water cooler One tank for extra storage of purified water 	250 litres/h 50 litre per hour 200 litre					
Common hall	T.V Hall of size 4.80 m x 7.38 m	24-inch T.V. Carom set, chess set (02)					
Problem redressal system	Hostel management committee is in-place	Weekly					
Cleaning	Two female labour are assigned for the cleaning of hostel premises including wet sweeper	Daily					
	Cleaning of drinking water tank	Weekly					
Transportation	Hostel is very near and at walking distance from college, university library and gymkhana						
Medical facility	Emergency medical facility	First aid box is available at hostel. University health centre available.					



Physical facilities in College boys hostel





Physical facilities in Girls Hostel

Accommodation to the girl students of PG and Ph.D. programme is provided in the common hostel facilities established at University level.

6.5.5.2 Examination Hall

The college has a separate examination hall of 275 m^2 area and office equipped with dual desk single student seating arrangement for about 150 students to conduct mid semester and semester end theory examinations of UG students. The examination hall is well ventilated and provided with sufficient number of lights, ceiling fans, air coolers (for summer examinations), CCTV camera network and 10 kVA UPS.



Examination hall of the college

6.5.5.3 Sports and Recreation Facilities

Facilities for outdoor and indoor games are available in college premises. There are three play grounds viz., Kho-Kho, Kabbadi and Volley ball in the college grants near hostel. Indoor games facility (chess and carom) is provided at boys/ girls hostel. For every academic year, in-charge officers for sports and cultural events are nominated at college level. Respective in-charge of the sports and cultural events guide the students as per their interest need and demand. Sports, cultural activities and college programmes are arranged through Gymkhana fund of the college. Details of incharge nominated for sports and cultural activities for the year 2022-23 are presented in Table 37 whereas availability of sports facilities at the college are presented in Table 38.



Participates of students in sports

S. No.	Name of the sport/cultural activity	Name of the incharge
1	Table Tennis/ Badminton(F)	Dr. Smita Khodke
2	Basket ball(F) / Valley ball(F)	Dr. Smita Solanki
3	Kabbadi(F)/Kho-Kho(F)/ Athletics(F)	Dr. Pramodini More
4	Atheletics(M)	Dr. D.V.Patil
5	Kabbadi(M)	Dr. P.A. Munde
6	Kho-Kho(M)	Dr.S.B.Jadhav
7	Basket ball(M)	Dr.H.W.Awari
8	Hand ball(M)	Dr. V.M.Bhosle
9	Volley ball(M)	Dr.S.D. Payal
10	Chess(M)	Shri D.V. Raut
11	Table Tennis(M)	Shri. L.V. Rautmare
12	Badminton(M)	Prof. B.W.Bhuibhar
13	Theatre, One act paly	Dr. M.R. More
14	Folk Dance, Music, Fine arts etc.	Dr. S.D. Vikhe
15	Criket	Dr. R.V.Shinde
16	Avishkar	Dr. S.R.Garud

Table 32: D	etails of incharge	for sport and	cultural activ	vities for the	year 2022-23
			•••••••		J

S. No.	Games/ Sports	Equipment and infrastructure	Adequate / inadequate
		availability	
1	Kabaddi	Available	Adequate
2	Kho-Kho	Available	Adequate
3	Volleyball	Available	Adequate
4	Cricket	Available at University level	Adequate
5	Table tennis	Available at University level	Adequate
6	Chess	Available	Adequate
7	Badminton	Available at University level	Adequate
8	Weight lifting	Available at University level	Adequate
9	Carom	Available	Adequate
10	Javelin throw	Available at University level	Adequate
11	Basket ball	Available at University level	Adequate
12	Athletics	Available at University level	Adequate

Table 33: Sport facilities of the college

6.5.5.4 Auditorium

The college has A.C. auditorium cum conference hall constructed in 1990-91 with built up area of 175.82 m² and seating capacity of 200 personnel. Auditorium is used for the cultural activities and celebrations of various events, trainings etc which includes birth anniversaries of Nobel laureates Freshers welcome, Farewell etc. weekly. The auditorium is provided with comfortable individual seating arrangement on staired flooring pattern, dias, podium, sound amplifier, speakers, mikes, LCD projector with screen, magnetic ink board and window curtains. The hall is also provided with enough ceiling fans and 10 kVA UPS for back up supply.

Seminars lectures of imminent personalities are arranged in the auditorium hall. An A.C. conference room cum meeting hall is also available which serve as mini auditorium and used for conducting student's seminar.



Auditorium hall of the college and organization of technical workshops

6.5.5.5 Exhibition Hall/Museum

College has exhibition hall cum museum which is located in hall No 7/4 of the college building with total floor area of 234 m². The museum houses charts, models and prototypes of irrigation system components, charts and models of rainfall measurement, runoff measurement, soil and water conservation measures, watershed development, prototypes of renewable energy gazets, post harvest processing models, prototypes of farm implements, farm machineries and working model of tractor operating systems and green house and shade net models.

6.5.6 Research Facilities

For partial fulfillment of UG programme, research project of 0+6 or 0+10 credits is to be undertaken by individual or group of students pertaining to any one of the disciplines of Agricultural engineering. For conducting student's research projects, college has sufficient number instrumentation, equipments, machineries, instructional farm, farm pond, runoff plots, Experiential Learning Unit on 'Processing of Pulses and Oilseeds', renewable energy park and fabrication workshop facility. Moreover, students also avail the research facilities available at different research centers of University as well as at state and central Government departments.





Field research facilities of the college

6.5.6.1 Postgraduate Laboratories and Equipment

Departmentwise details and number of UG, PG and Ph D laboratories of the college is presented in Table 39. Details of departmentwise list of equipments/ instruments/implements is presented in Table 40.

Laboratories

Table 34: Department wise details of laboratories

1. Department of Irrigation and Drainage Engineering

Sr. No.	Name of the Laboratory	Length (m)	Breadth (m)	Area (sq.m)	Seating Capacity (No. of Students)
1.	Micro Irrigation Field Lab.	100	100	10000	40
2.	Geo-informatics Computer Lab.	3.00	4.00	12.00	10
3.	Lysimeter-AWS Field Lab.	140	100	14000	40

2. Department of Soil and Water Conservation Engineering

S. No.	Name of the Laboratory	Length	Breadth	Area	Seating Capacity
		(m)	(m)	(sq.m)	(No. of
					Student)
1	Soil water Conservation	100	100	10000	40
	Engineering Field Lab.				

3. Department of Agricultural Process Engineering

S. No.	Name of the Laboratory	Length	Breadth	Area	Seating Capacity
		(m)	(m)	(sq.m)	(No. of Student)
1	Crop Processing Engg. Lab.	11.28	14.32	162	40
2	Food Engineering Lab.	8.7	7.4	64	10
3	Quality control (ELP) Lab.	12.20	10.80	132	40

4. Department of Farm Power and Machinery

Sr.	Name of the Laboratory	Length	Breadth	Area	Seating Capacity
No.		(m)	(m)	(sq.m)	(No. of
					Student)
1	Workshop	10.60	21.80	231	40
2	Farm Power	11.15	21.40	239	40
3	Engineering Drawing Hall	11.15	18.80	198	40
4	Implement Shed	16.50	29.60	488	40
5	Exhibition Hall	10.60	22.00	233	40
6	CAD – CAM	06.00	15.00	90	40
7	Laboratory	11.15	17.80	198	40
8	Drawing Hall				

S. No.	Name of equipment/ instruments/implements					
	Department of Irrigation and Drainage Engineering					
1	Oven, Tensiometer, Electrical Conductivity Meter					
2	Double Ring Infiltrometer, pH Meter					
3	Water Quality Testing Kit					
4	Sprinkler and Drip Irrigation System Components					
5	Irrigation Water Measuring Devices (V-Notch, Parshall Flume, H-Flume,					
	Orifice Plate)					
6	Venturimeter, Orifice meter setup, Parshall Flumes, Mouthpiece					
7	Bernoulli's Theorem Apparatus					
8	Meta-centric Height Apparatus					
9	Tilting flume apparatus					
10	Current meter, Pan evaporimeter, Electrical resistivity meter					
11	Different manometers					
12	Different components of pumping unit: impellers, foot valves, etc.					
13	Different flow control valves for pipe flow					
14	Different types of pipes and pipe fittings					
15	Pump test rig					
16	Different models: water regulating structures in canal irrigation: head regulators,					
	canal regulators, cross drainage works, etc					
17	Water Quality Analysis kit					
18	Photo Flame meter					
19	Leaf Area meter					
20	Drip Irrigation Automation Unit					
Department of Soil and Water Conservation Engineering						
1	Hot air oven, Augers, Moisture boxes, Digital weighing balance					
2	Digital soil moisture meter					
3	Bulk density apparatus-core cutters					
4	Soil temperatures meters-1) probe thermometer2) infrared thermometer					
5	Double ring infiltrometers					
6	Falling head permeability test apparatus					
7	Sieves shaker for particle size analysis					
8	Consistency limits apparatus					
9	Instruments for land survey, Plane table and its accessories, Prismatic and					
	surveyors compass, Automatic level, Thedolite, Dumpy levels and levelling					
	staves, Drafting table					
10	Instruments for slope measurement-hand level, Abney level, clinometers etc.					
11	Total survey station					
12	Flow measuring devices-h flume, parshall flume					
13	Flow velocity measurement instruments-current meters					
14	Multi slot divisors and Runoff plots on field laboratory					
15	All types of rainfall recorders					
16	Stage level recorders					
17	Different evaporation pans					
18	Anemometer, Hygrometer					

Table 35: Details of department wise list of equipments/instruments/implements for PG& Ph. D. programme

	Department of Agricultural Process Engineering
1	Texture analyzer
2	Apparatus for angle of repose, anemometer,
3	Apparatus for measurement of properties of milk, cream separater
4	Autoclave
5	Mini Dal Mil
6	Infrared Moisture meter
7	Flour Mill
8	Mixer cum pulper
9	Models of handling equipments and Boilers
10	Vibration and drop tester, Box compression tester,
11	Spray dryer
12	Orbital shaking incubator
13	Horizontal laminar air flow cabinet
14	Colany Counter
15	Bakery Unit
16	Water activity meter
17	Hunter Lab colori meter
18	Extruder
19	Multi grain Köster cum puffer
20	PH meter Definition
21	L HI T machanical druger
	Department of Farm Power and Machinery
1	Tractor – 45 hp
2	Power Tiller. Reapear
3	Lathe Machine, CNC Machine, Shaper Machine, Welding Machine
4	Grinder
5	Tool kits with box (Ellen key set, Open end spanner set, Pliers, Nose pliers,
	Circlip pliers)
6	Cut sections of Tractor, Single and Multi cylinder engine, Air cleaner, Gear box,
	Differential, Battery, Fuel injection pump
7	Models of Electrical system, Lubrication system, Cooling system, Tractor
	hydraulic system
8	Mould board plough, Sub-soiler, Rotary tiller, Cultivator, Seed-cum fertilizer,
	drill Inclined plate planter, Vertical conveying reaper, Potato digger
9	Laser leveller
10	Set of animal drawn implements: disc harrow and cultivator
11	Potato planter, Sugarcane cutter planter
12	Knap sack sprayer
13	Wheat thresher, Paddy thresher, Multi crop thresher
14	Standard disc plough, Mould board
	Department of Basic Science and Computer Technology
1	One Server
2	Thin Clients- 24
3	Desktop PC-8
4	10KVA online UPS

5	Network Switches
	Department of Renewable Energy Engineering
1	Electrical Tutor for three phase induction motor
2	Electrical Tutor for Single phase induction motor
3	Electrical Tutor for Slip-ring induction motor
4	08 Channel Micro- Processor based Temperature Scanner
5	Em50 Digital Data Logger: with Data Trac III graphing software (single user) and Solar Radiation Sensor (Pyranometer) with levelling plate
6	Pyronometer
7	SPV Submersible pump, SPV centrifugal pump
8	Solar wind hybrid power generating system
9	Solar water heating systems: Flat plate collector type, Evacuated Tube Collector type
10	Solar cookers: Scheffler type, Parabollic collector type, Box type
11	Solar Dryers: Tunnel type, Cabinet type, Rock bed type
12	Solar Distillation plant
13	Biogas Plants: Deenbandhu type, Floating drum type (AARTI model)
14	Biomass Gasifier
15	Biodiesel Processor
	Department of Farm Structures
1	Slump Cone Test, Compaction Factor Test, Flow Table,
2	Le-chatelier mould
3	Vicat apparatus
4	Concrete cube mould
5	Universal Testing Machine (U.T.M Capacity = 40 tonne)
6	Compression Testing Machine Capacity-1000 KN
7	Aggregate Impact Testing Machine
8	Stiffness of spring test, Hardness test
9	Force Tables
10	Differential Axle and Wheel, Single Purchase Crab, Double Purchase Crab, Worm and Worm Wheel
11	Models of Shade net house, Green house, Construction Technology, Trusses

6.5.6.2 Research Contingency

ICAR development grants are utilized for undertaking head base research work of UG, PG and Ph D programmes. Yearwise details of ICAR research funds received and expenditure incurred is presented in Table 41. ICAR research funds are granted at college level only. Hence, its departmentwise allocation is made as per the research priority and need of the departments.

 Table 36: Yearwise details of ICAR research funds received and expenditure incurred

 Image: Image:

Year	ICAR Grants Received (Rs in Lakhs)	Expenditure (Rs in Lakhs)
2018-19	13.00	04.77
2019-20	15.00	16.16
2020-21	18.30	10.87
2021-22	67.00	11.72
	(College 2.0/Dean 65.0)	
2022-23	0.20	0.20

during 2018-19 to 2022-23

6.5.7 Outcome/Output

6.5.7.1 Student Performance in National Examinations

After completing UG programme, students of the college who are interested to pursue higher education, attempt entrance examinations at National and State level. Performance of UG students in GATE, ICAR-JRF and other National level examinations and their placement in different universities for PG programme during 2018-19 to 2022-23 is presented in Table 42. Similarly, performance of students in Maharashtra Common Entrance Test, MCAER-CET for admission to PG programme in SAUs and other examinations, is presented in Table 39.

Table 37: Students performance in national examinations for the period of 2018-19 to2022-23.

Sr.		Year wise Number of Students Qualified					
No.	Type of Examination	18-19	19-20	20-21	21-22	22-23	
1	GATE	02	05	01	01	01	
2	ICAR - PG	05	08	12	03	04	
3	MCAER	06	05	13	08	17	
	Total	13	18	26	12	22	

Out of total of 278 students passed out in UG programme of the college, about 15 % students have preferred to appear for entrance examinations conducted at National level for pursuing higher education.



Figure 1: Performances of UG students in National and State level PG entrance examinations

Out of total 278 students passed out UG programme of the college, 35% students preferred to appear entrance examinations conducted at state level for pursuing higher education mostly in SAU's and other institutes, so as to get high grade professional job. On the basis of MCAER-CET examinations students have secured the admission in either of 4 SAUs, 27.5% students preferred Agricultural Processing Engineering whereas 25% students have preferred Farm Power and Machinery subject for admission to M. Tech. Preference of students for the subjects Irrigation and Drainage Engineering and Soil and Water Conservation Engineering is 22.5 and 17.5%, respectively. Preference for subjects other than Agricultural engineering is observed to be of 5% percent only. Moreover, 57.5% students preferred the parent University for pursuing higher education.

Overall, out of 278 students passed out, 26.5% students opted for higher education in order to get higher professional jobs in Agricultural engineering.

6.5.7.2 Student Placement Profile

Students placement cell is established in the room No 12-A of the college building. Students passed out UG programme and got placement in different institutes, departments, banks and private sectors during the period from 2018-19 to 2022-23 are as under.

Most of the passed out UG students, while pursuing PG programme, prepare for seeking job in banking sectors through Banking Service Recruitment Board. Job requirement of posts such as Agril. Officer/Agril. Field Officer/Junior Agril. Officer, etc in banking sector, is to verify technical facts and feasibility of the Agricultural development project to be financed. Fourty seven students working in banking sectors in different banks are as under.

Sr.	Name of the Sector	Number of	Percentage of the
No.	Name of the Sector	Students	Students
1	Govt. of Maharashtra/	08	3%
	Govt. of India		
2	Private & Nationalised Bank	13	4%
3	Tractors & Agricultural machinery	20	7%
4	Irrigation & Soil/Water Conservation	22	8%
5	Food Process sing	02	1%
6	Private Institute / NGO	01	0.5%
7	Entrepreneur	03	1%
8	Higher Study	70	24%
8	Other Sectors / Digital & Commerce	14	5%
	Sectors		
9	Competitive Exam Preparation	125	47%
	Total	278	

Table 38 :Sector wise Placement 1	Record of CAET Students for the period of 2018-19 t	to
2022-23.	-	



Figure 2: Placement of UG students during 2018-19 to 2022-23

6.5.7.3 Award/Recognition/Certificates

The awards/recognition /certificates received by college students in various activities are as

under :

Table 30. Student	awards/recognition	n/cartificates during	2018 10 to 2022 23
Table 39. Student	awarus/recognitio	n/certificates during	2010-19 10 2022-23

S. No.	Year	Name of	Awards/recognition / certificates	
		Student		
1	2018-19	Kshide	II Prize in Classical Instrumental Solo in Inter	
		Rakesh	Collegiate Youth Festival	
		Ms.	First Prize in light Vocal in Inter Collegiate Youth	
		Buttanwad	Festival	
		Vaishnavi		
2	2019-20	Chavan T.S.	Second Prize in intercollegiate Elocution	
			competition organized by Bhanudasrao Chavan	
			Pratishthan Aurangabad	
3	2020-21	No competiti	ons were conducted due to CORONA	
4	2021-22	No competiti	ons were conducted due to CORONA	
5	2022-23	Avishkar	Ms. Priyankja Yenke, Harkal A.N., Ms. Seema	
			Akhade, Ms. Nilza Othizes, Mauli Khating, Gosavi	
			Rinkesh	

The awards/recognition/certificates of UG students in inter-collegiate sports and co-

curricular events during 2018-19 to 2022-23 are presented in Table 48.

Table 40: Award/recognition/certificates of college students in intercollegiate sports and
co-curricular activities (Youth Festival) at University level during 2018-19 to
2022-23

Year	Activity	Award
	Mime	Third prize
2018-19	Kabbadi (M)	First Prize
	Kabbadi (M)	First Prize
2020-21	1 No games were conducted due to CORONA	
2021-22	2 No games were conducted due to CORONA	
2022-23	Badminton (M)	Second Prize

College students are selected in University team to participate in Inter-University competitions during Zonal/ ICAR tournaments during 2018-19 to 2022-23 is presented in Table 49.

Table 41: College students selected in University team to participate in inter Universitycompetitions (State and National Level) 2018- 19 to 2022-23

Year	Activity	Names of the student
2018-19	Volley ball (M)	Thorat A. A. 2016/59B
	Kabbadi (M)	Ghadge P.M. 2015/20B Satarkar S.S. 2015/51B Shinde D.S. 2015/38 (Waiting)
	Kabbadi (F)	Pawar Puja Dhondiram 2017/51B
	Kho-Kho (M)	Bhoite D.M. 2017/04B

	Chess	Dudhate P.P. 2015/17B	
Folk Dance Ms. Patil P.D.		Ms. Pawar V.B., Ms. Kumavat T.D., Kalbande V.D., Patil S.P., Ms. Mote K.D., Ms. Awasarmal S.R., Ms. Lad P.D., Konade S.S.	
	Lavani Dance	Ms. Neha Awasarmal,	
Mime Ms. Waghmare B.N., Ms. Pawar H Jajbir S.S.		Ms. Waghmare B.N., Ms. Pawar H.B., Kalbande V.D, Jajbir S.S.	
	Skit	Bhoite D.M., Vahital G.S., Suryawanshi B.M., Chavan T.S.	
2019-20	Badminton (M)	Nikam O.P. 2016/41B, R.R.Kashid 2017/29B,	
	Kabbadi (M)	Ghadge P.M. 2015/20B, Nikam O.P. 2016/41B	
	Kho-kho (M)	Bhosle A.R., Pawar H.B., Thoke P.A.	
	Basket Ball (M)	Arkade R.G.2017/02, Kharat Krushna 2017/32B, Netke A.N. 2017/43, Waiting: Waghmare S,.S., 2016/64B	
	Kabbadi (F)	Khating V.D., 2015/28B, Kumavat T.D. 2016/34B,	
	Music	Shruti Rajput	
2020-21	No games were conduct	icted due to CORONA	
2021-22	No games were conduct	ed due to CORONA	
2022-23	Basket Ball (M)	Kale S.K. 2021/21B, Balmmjingshai N.R.K. 2021/06B Kharat H.M. 2022/01M	
	Basket Ball (F)	Ms. Vaidya P.R. Ms. Shinde S.S. Ms.Gogavale I.S. 2020/24, Ms. Nilvarna Shweta (Waiting)	
	Kho-kho (F)	Ms. Kachhave C.R. 2021/09B, Ms.Pawar H.B.Ms.Wani G.B.2021/54B	
	Kabbadi (M)	Chavan S.R.2021/12B,	
	Kabbadi (F)	Ms. Jadhav A.P., Ms.Kumavat T.D.2020/17M, Ms.Pote V.R. 2021/03M (Waiting)	
	Volly Ball (M)	Landge A.S. 2018/35B,	
	Volly Ball (F)	Ms.Desai M.B.	

Award/recognition/certificates of Faculty

Award/Recognition/Certificates of College faculty during 2018-19 to 2022-23 is presented in Table 50.

Table 42:Award/recognition	i/certificates of faculty	members during	2018-19 to 2022-23
8		C	9

Name of Faculty	Award/ Recognition	Awardees Institute	
	/Certificates		
Dr. S.U. Khodke	Laxmikant Kokil Sinchan	Maharashtra Sinchan Sahyog,	
	Lekhan Puraskar, 2018	Aurangabad	
Dr. S.U. Khodke	Best paper Award for the	First International Conference on	
	paper entitled	"Entrepreneurship in Agriculture and	
	"Entrepreneurship	Renewable Energy Sector" held at	
	Development through	Dr. PDKV, Akola during 15-16,	

	Production of Soynuts in (HTST) type Puffing Machine at Cottage Level"authored by Smita Khodke, Avinash Kakade and Nitin Aras 2019	March, 2019.
Dr. S.U. Khodke	Best paper Award for the paper entitled "Effect of different osmotic agents on quality of osmo-convective dried orange slices with peel." authored by Madhuri Gajbe,Smita Khodke and Shubhangi Thakre, 2019	First International Conference on "Entrepreneurship in Agriculture and Renewable Energy Sector" held at Dr. PDKV, Akola during 15-16, March, 2019.
Jaybhaye R.V	Best Poster Award for the paper entitled "Entrepreneurship Development in Rural Sector Through Traditional Ready- To-Eat Food (Kharodi)"authored by Solanke S.B., Jaybhaye R.V. and Giram R.J. 2019	First International Conference on "Entrepreneurship in Agriculture and Renewable Energy Sector" held at Dr. PDKV, Akola during 15-16, March, 2019.
Dr. S.N.Solanki	Corona warrior award- 2020	Jivansadhna Foundation.
Dr. S.N.Solanki	INDIA PRIME Top 100 Women Icon award – 2021	Fox Clues, Ludhiana
Dr. S.N.Solanki	Krishi Nari Samman - 2021	Kasturi-TCSRD(Tata Chemical Society of Rural Development) and all about FPO (Krishi Vikas Initiative)
Dr. S.N.Solanki	Maharashtra Bhushan Va Jivan Gaurav purskar -2021	Mahatma Kabir Samata Parishad (Maharashtra State)
Dr. S.N.Solanki	Star golden award – Best Research and extension – 2021	Suman Arts Theatres.
Dr. S.N.Solanki	Agrocare Idol award for Best innovative and Extension work - 2021	by Agrocare Krishimunch, Krushi Udyog Manthan.
Dr. S.N.Solanki	Women's Conclave and Awards for Best innovative and Extension work – 2021	Crazy Tales
Dr. S.N.Solanki	India Star Community Award – 2021 for lifetime achievement award in research (Animal Energy)	MTTV India Digital Media
Dr. S.N.Solanki	Women Leadership Award - 2021	GlantorX Market Research and Ranking

Dr. S.N.Solanki	World women icon 2022 - Best	Global Trimph Foundation.
	Researcher in Maharashtra	
	State	
Dr. S.N.Solanki	IWM researcher Award -2022	Nirgia Brand Promoters
Dr. S.N.Solanki	Indian Glory Award 2022 for	Kites Productions
	Farm Mechanization and	
	Research Extension	
Dr. S.N.Solanki	Bharat Bhushan Award- 2022	NAHF Registered by Govt. of India
	in Research & Extension in	
	farm mechanization	
Dr. S.N.Solanki Nelson Mandela Global		International Humanity Mission
	Brilliance award – 2022 for	Organization, under Ministry of
	excellent work and outstanding	Social Science and Empowerment,
	performance and remarkable	Govt. of India.
	role in the field of agriculture	
Dr. S.N.Solanki	Best Scientist Award - 2023	VNMKV Parbhani Maharashtra
Dr. S.N.Solanki	Certificate of Mentor Avishkar	Savitribai Phule PUNE University in
	2023 for PG and PPG students,	15th Maharashtra State Inter-
		University Research Convention.
Dr. S.N.Solanki	32 Appreciation letters	From various institutions and
		dignatories

6.5.7.4 Employability

The graduates of the college prefer to go to agriculture or allied sectors in government, semi-government or private organizations. However, due to less vacancy and time-lag in placement, only 4% of graduates of the college are employed in Government's Agricultural related sectors. Students also opt to appear in competitive examinations related to agriculture sector to serve the farming community. About 46% of the total employed graduates of the college during 2018-19 to 2022-23 are selected in different banks and organizations dealing with Agricultural development projects for farming community.

The 44% of the total employed graduates are working in private institutes/ organizations /firms as design or sales engineer and dealing with components of agriculture pertaining to irrigation systems, seed processing and storage, tractor and farm machinery, renewable energy, electric motor accessories, watershed development, etc.

After acquiring higher qualifications, 10% of the total employed graduates are employed in Private Academic Institutes and few of them have started their own business/ industries related to Agricultural engineering.

Name of the student	Present Position	Name of the firm	Turn Over (Rs.Lakhs)
Randhir Chavan	Managing	Netafim Irrigation Pvt. Ltd.	90000.00
	Director	Vadodara, Gujrat State.	
D. R. Bhapkar	Managing	Resonant Plast Pvt. Ltd.	150.00
	Director	Nashik	
S. G. Dhoot	Proprietor	Gurudatta Industries, D-	300.00
		52/14, MIDC Waluj	
		Aurangabad	
R. K. Salunke	Proprietor	Global Quality Agencies,	17.00
		Baramati	
Pramod Bhande	Proprietor	Eurosia Irrigation Systems	60.00
		Pvt. Ltd. Aurangabad	
B. K. Pedgaonkar	Proprietor	ARTS Waternatics, MIDC,	700.00
		Parbhani	
Girish Kanole	Managing	John Deere Irrigation Ltd.	-
	Director	Pune	
Manik Jadhav	Proprietor	NIIT, Aurangabad	-
M. D. Latpate	Founder and CEO	Bigdash LLP Service	-
		Provider Co. Pune	

Table 43: Details of t	the college s	students	initiating	self	entrepreneurship	and	leading
the comparison	nies.						

- Faculty of the college work for the overall development including professional skills, attitudes, motivation, personality development, etc in order to improve the employability of Agricultural engineering graduates.
- Students from the college are heading various tractor and irrigation companies, food industries at state and national level. They are also working in state Agricultural department and on administrative posts in the civil department. Some students are having their own start ups in irrigation pipes and component food processing and farm implements and machineries industries.
- It is matter of great pride for the fraternity of Agricultural Engineering that one of our Ex. Student and Alumina of this college Mr. Randhir Chauhan is the Managing Director of NETAFIM India, Division and a Member of NETAFIM Corporate Management. Having served in Netafim at various levels and groomed as top talent in the group, his current responsibility since 2007 is for overall management of business and long-term strategic vision for India and SAARC countries.
- Mr. Randhir has served Irrigation Association of India as president for 3 years. During this tenure, IAI served a critical role in formation of National Mission on Micro-Irrigation under his visionary outlook and persuasive effort. He is an active member of many industry affiliated associations and organizations like state micro-irrigation committee, Irrigation Association of India, etc. He is also a member of Confederation of Indian Industries (CII) National Council on Agriculture. Mr. Randhir Chauhan added a feather in the cap of College of Agricultural Engineering and Technology, VNMKV, Parbhani due to
his hard work, excellent performance, dedication, talent and honesty. Following photographs indicate his leadership quality.



CAET Parbhani Aluminus Mr. Randhir Chauhan, MD, NETAFIM India presenting before Hon. Prime Minister of India Shri Narendraji Modi CAET Parbhani Aluminus Mr. Randhir Chauhan, MD, NETAFIM India presenting before Hon. Chief Minister (T.S.) Shri K. Chandrashekhar Rao & Hon. Chief Minister (M.S.) Shri Devendra Fadanvis.

Certificate

I, Dr. U. M. Khodke, **Dean**, College of Agricultural Engineering & Technology, Parbhani hereby certify that the information contained in section 6.4 and Section 6.5.1 to 6.5.7.4 are furnished as per the records available in the college and degree awarding University.

(U.M. Khodke) Dean

Date:

Seal: