SELF STUDY REPORT
(2018-2023)

Submitted to

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

Vilasrao Deshmukh College of Agricultural Biotechnology, Latur
Vasantrao Naik Marathwada Krishi Vidyapeeth
Parbhani - 431402 (MS) INDIA

Self Study Report

for

Accreditation

(2018-19 to 2022-23)

Vilasrao Deshmukh
College of Agril. Biotechnology, Latur

Vasantrao Naik Marathwada Krishi Vidyapeeth,
Parbhani

Message from Vice-Chancellor's Secretariat

While fulfilling the objectives of inculcation of values and intellectual excellence, a wide range of professional programmes towards the development of youth in national agricultural education system have initiated, wherein the Vilasrao Deshmukh College of Agricultural Biotechnology, Latur was established in the year 2006 as the first constituent college offering conducive environment to its students in the fast growing field of Biotechnology at UG and PG-levels. Over the years, the Biotechnology programme has established itself as a leading academic programme both from the teaching and research point of view. In the coming days, Biotechnology is expected to play a crucial role towards improving the quality of life including the sustainable productivity of agriculture sector. The undergraduate and postgraduate degree program in biotechnology operated at this university suits well for research, innovation and entrepreneurial goals in the various field of biotechnology and allied sciences.

The Indian Council of Agricultural Research has been striving to aid, impart and coordinate agricultural education to develop quality human resource in the country. In order to address the concerns of quality higher agricultural education, especially in the newly emerging area of Biotechnology, it is vital for this only constituent college in Marathwada region to get accredited.

I wish all the success to the College Administration towards ICAR's accreditation programme and future endeavors.

Prof. Dr. Indra Mani
Hon. Vice Chancellor
VNMKV, Prabhani

Foreword

The Vilasrao Deshmukh College of Agricultural Biotechnology, Latur is the first Government Constituent College in the Maharashtra State established in the year 2006 under Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, which provides a platform Agricultural Biotechnology education and research. In this era of modern science, the frontier science like Biotechnology is providing answers to most of the unsolved mysteries related to the betterment of the quality of life. The Indian Council of Agricultural Research has been striving to aid, impart and coordinate agricultural education to develop quality human resources for academic excellence in Agricultural Biotechnology.

Over the past 17 years, this college is consistently serving and performing in the welfare of students with optimal infrastructure, qualified faculty, externally funded research projects and ample learning resources and ability to upgrade in given national system. With this assurance, I express my best wishes to the Associate Dean & Principal and his team to present this dynamic Self Study Report during the ICAR's Accreditation programme and future academic endeavors to fulfill the mandate and vision of this University.

To shoulder such challenges ahead and transforming the careers of students in this frontier area of Agricultural Biotechnology, I wish all success in the future endeavors.

Dr.Uday Khodke
Director of Instruction
VNMKV, Parbhani

Preface

The Vilasrao Deshmukh College of Agricultural Biotechnology, Latur was established in the year 2006 to address the need for a school devoted to training, research and development of human resource in the field of Agril. Biotechnological sciences in this region. This college has well infrastructural facilities, highly qualified academic staff, technical and supporting staff, cultivable instructional farm for experimentation and practical to train students in their operational skills. The college arranges several programs of academic and extracurricular nature for the overall dynamic development of their students. The students of this college have set a mark of academic excellence by securing top ranks in this University as well as other reputed Institutes/ Universities towards higher education. Also, the graduated students of this college have demonstrated high level of employability with placements in various public as well as private sectors along with self entrepreneurships. The college has also acted as a 'State Degree Coordinator' and finalized the courses syllabi with lesson plans towards the implementation of new curriculum of B.Tech. (Biotechnology) degree programme under the regime and as per the guidelines of ICAR's V Deans' Committee recommendations.

This Self Study Reports of undergraduate, postgraduate degree programmes and college in a whole has been prepared in partial fulfillment of requirement for the ICAR's Accreditation Programme from academic year 2018-19 to 2022-23. With this view, various committees under the Chairmanship of the undersigned had formulated with academic and supporting staff as Members to prepare the draft documents towards the accreditation of undergraduate and postgraduate programmes running at this college. In pursuit of the mission of giving quality education, I expect and wish that such prestigious accreditation will strengthen and encourage the faculty and students.

(Babasaheb Thombre)
Dean
Vilasrao Deshmukh College of
Agril. Biotechnology, Latur.

Acknowledgment

I take this opportunity to place on record the timely submission of information, by all the academic and administrative staff members, required for the inclusion in preparation of Self Study Report of this College for ICAR's Accreditation purpose. The Incharges of respective Cells, like UG Education and Examination Cells (Dr. Y.S. Bhagat), PG Education Cell (Dr. S.R. Bhalerao), Wardens of Hostels (Dr. V.R. Hinge and Dr. Y.S. Bhagat), Farm section (Dr. B.N. Aglave and Shri. V.P. Durugkar), and Gymkhana section (Dr. A.A. Bharose), Student Counseling and Placement Cell (Dr. R.L. Chavhan), Library (Dr.V.R. Hinge and Shri. Biradar), NSS programme (Dr. R.N. Dhawale) and Accounts and Administrative Cell (Shri. R.H. Bhawale, Mrs. S.B. Ambatwad, Mrs. A.S. Garad) contributed the appropriate information of their branches for this report.

I also put on record the inputs and special efforts rendered by Dr.A.A.Bharose, Dr.Y.S. Bhagat and Mr.Venkatesh Reddy for compiling, editing, graphics and the preparation of this report in final form.

Our special thanks are due to Dr. Indra Mani, Hon'ble Vice-Chancellor of our University and Dr. U.M. Khodke, Director of Instruction for their valuable guidance and encouragement during the preparation of this report manuscript.

My appreciation is also extended to the University Accreditation Team who helped in bringing the uniformity and meticulously suggested some points in shaping this report.

I also express my gratitude to all those, who have directly or indirectly associated in the preparation of this report.

(Babasaheb Thombre)
Dean
Vilasrao Deshmukh College of
Agril. Biotechnology, Latur.

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6.4. Self Study Report for the Under-Graduate Programme

6.4.1. Brief History of the Degree Programme

The foundation stone of the **College of Agricultural Biotechnology, Latur** was laid in the year in 2006 (vide MH G.R. No. MKV 1005/PK299/7A dated 5th July, 2006) towards the education, research and extension in the area of Agricultural Biotechnology and related technology with view towards welfare of the farmers and students, who get well-acquainted with the biotechnological tools and techniques during their four years of B.Sc. (Agril. Biotechnology) degree programme. The college was started with an intake capacity of 32 students and it is increased to 40 students from the academic year 2010-11. Furthermore, the intake capacity increased to 50 as per ICAR norms from academic year 2022-23. This college was re-named as 'Vilasrao Deshmukh College of Agricultural Biotechnology, Latur' in the memory of the visionary leader and former Chief Minister of Maharashtra Late Shri. Vilasraoji Deshmukh on dated 3rd September, 2013. The degree programme **B.Tech. (Biotechnology)** has accredited for a period of five years (2018-2023) by ICAR, New Delhi. The Post Graduate programme in Plant Biotechnology [M.Sc. (Agri. Biotech.)] was started in the year 2001 at VNMKV, Parbhani under Department of Biotechnology (GoI), New Delhi and there after it was shifted at Latur during 2009-2010. It also has accredited by Department of Biotechnology (GoI), New Delhi.

Vision of Institute

To be a centre of excellence in basic and applied research and training young minds in the field of Agricultural Biotechnology.

Objectives of the Institute

- To impart a quality education in Molecular Biology and Biotechnology to address issues of agriculture, pharmaceutical, health, environment etc. through use of modern tools and techniques in Molecular Biology and Biotechnology.
- To provide a platform for education of global standards in Molecular Biology and Biotechnology and Bioinformatics using advanced methods and techniques.
- To carry out discovery-oriented research of international standards towards biotech product development.

- To establish academic and research collaborations with the industries and institutions at both National and International levels.
- To develop bio-entrepreneurs and human resources for biotech industries.

➢ Accomplishments:

1. Successfully imparted the education and training through under-graduate degree programme of B.Sc. (Agri. Biotech.)/ B.Tech. (Biotechnology) resulting into **423 passed-out students** during academic years **2010-11 to 2021-22.**
2. **UG students of the college** demonstrated par excellence achievements in the academia by securing **Gold Medals** during **2018, 2019, 2020, 2021 and 2022** among the six Agricultural Biotechnology colleges under this university jurisdiction.
3. The passed out UG Students preferred and sought admission in the reputed National Institutes/ Universities for pursuing **higher education** (M.Sc./ M.Tech./ MBAs/ PG Diplomas etc.) through various CETs, wherein some of them also succeeded with award of **different Fellowships** (DBT GAT-B etc.). Few students preferred to prepare for the **Public Service Commission and Banking recruitment-examinations**; while some of them got recruited in **Private Agro-Industrial sectors.** Few of them have also started their **own Agro-Entrepreneurships** mostly at their native places.
4. Dr. Pandurang Divte, a UG passed out student of this college has joined the **ARS services** in the year **2022.**
5. The under-graduate students **won laurels in various academic, research, cultural, sports** events at regional, university as well as national level competitions.
6. The college has implemented **academic research projects as well as ad-hoc research projects** in the field of Agril. Biotechnology to enhance the quality of long-term improved productivity of the regional and other crops.
7. Students are provided with the exposure to scientific and industrial biotech. sectors through **Industrial Trainings, Industrial visit Tours and Study Tours to reputed institutions**.
8. **Dissemination of new improved technologies** and **awareness regarding biotechnological approaches** were done on regular basis through Farmers Trainings, Rural Youth and Women's Trainings, Field Days, Field Visits, Farmers' Rallies during NSS Camps, Field Demonstrations, Popular extension publications, Lectures etc.

9. Well-equipped **Plant Tissue Culture Laboratory** was established under the ad-hoc project funded by DBT (GOI), New Delhi during **2014-15**.
10. This College has received the **Incentive Awards for Publications for the years 2016 and 2017** from DBT (GOI), Biotechnology Information System Network, Ministry of Science & Technology, New Delhi for securing the third position in the category of Bioinformatics Infrastructural facility (Colleges).
11. The **Dept. of Agriculture (Govt. of Maharashtra) recognized** and granted this college as a Centre for '**DNA Fingerprinting Laboratory'**; which is eventually expanding the research infrastructure for the UG teachers and students through their active involvement and exploring their research horizons. The revenue to the tune of approx. **Rs. 30.00 Lakhs** was received by the college from different public and private sectors.
12. The faculty of this college has **17 publications with NAAS rating above 6.0** during **2018-2023**.
13. The faculty of this college received **recommendation** for developing molecular diagnostic kit "**VNMKV-BBTV-ARRAY" for indexing of Banana Bunchy Top Virus in Tissue cultured Banana** in Joint Agresco Meet held at Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli **during 2018.**
14. The faculty of this college received **recommendation** for developing molecular diagnostic kit **"VNMKV-BSV-Detect"** assay for precise detection of **Banana Streak Virus (BSV)** in tissue culture raised banana plantlets in Joint Agresco Meet held at Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli during **2022.**
15. Students are getting benefitted through infrastructure development and research activities performed under various research projects operated at this college as given in Table 1.

Table 1: Project sanctioned and executed at this college

Sr. No.	Title of Projects	Funding agency	Duration	Project Cost (Rs in Lakhs)
1.	Plant Tissue Culture Programme for Women and Rural Development	DBT, New Delhi	2012-2015	111.84
2.	Analysis of Aroma Volatiles and Expression of Genes involved in Aroma Synthesis in Scented Rice	DST, New Delhi	2012-2015	19.40
3.	Development of RNAi mediated Resistance in Sunflower against Sunflower Necrosis Virus (SNV)	DBT, New Delhi	2012-2015	33.72
4.	Gene Tagging for *Fusarium* Wilt Resistance in Safflower	DBT, New Delhi	2012-2016	17.76
5.	Application of Nanotechnology to Elucidate the Molecular Mechanisms of Plant Host - Virus Interactions in Pigeonpea Sterility Mosaic Disease (PSMD)	SERB, New Delhi	2015-2018	33.30
6.	Establishment of Bioinformatics Infrastructure Facility for Biology Teaching through Bioinformatics (BIF-BTBI) under the BTISnet	DBT, New Delhi	2012-2018	18.00
7.	DNA Fingerprinting of Agriculturally Important Crop Plants	Govt. of Maharashtra	2018 - till to date	30.00
8.	RKVY-Establishment of Model Genome Club for Sustainable Agricultural Development	DAC, Govt. of India	2022 - till to date	43.90
9.	Establishment of Modern Biotechnology Laboratory for Sustainable Agricultural Development	Govt. of Maharashtra	2023 - till to date	585.00

6.4.2. Faculty Strength

a. Faculty position (both in sanctioned and in-position) for the UG programme:

Table 2: Faculty Strength for B.Tech. (Biotechnology) degree programme

Sr. No.	Name of Post	No. of Posts Sanctioned	No. of Posts Filled-in	No. of Posts Vacant	Faculty recommended by ICAR (V Deans' Committee Recommendation)
1.	**Associate Dean and Principal**	**01**	**01**	**00**	**01**
2.	**Professor**	**01**	**00**	**01**	**04**
3.	**Associate Professor**				
	Plant Biotechnology	02	02	00	
	Biochemistry and Molecular Biology	01	01	00	
	Post Harvest and Food Biotechnology	01	01	00	
	Crop Science	01	01	00	
	Total	**05**	**05**	**00**	**08**
4.	**Assistant Professor**				
	Plant Biotechnology	01	01	00	
	Biochemistry and Molecular Biology	01	01	00	
	Post harvest and Food Biotechnology	01	01	00	
	Animal Biotechnology	01	01	00	
	Crop Science	01	00	01	
	Total	**05**	**04**	**01**	**22**

NOTE: Faculties assigned the responsibilities for multiple programmes considering their work-load (i.e. UG and PG). The faculty shared from campus i.e. College of Agriculture, Latur; Oilseed Research Station, Latur; also, course teachers appointed on credit-basis (contractual) are being exploited to execute UG degree programme at this college.

Table 3: Details of the Faculty associated with UG degree programme

Sr. No.	Name of the Faculty	Post/ Designation	Establishment	Qualification
1.	**Division of Plant Biotechnology**			
	Core Faculty of Plant Biotechnology			
	H.B. Patil	Associate Professor	VDCoAB, Latur	M.Sc.(Biochem.)
	Dr. A.A. Bharose	Associate Professor	VDCoAB, Latur	Ph.D. (Biotech.)
	Dr. S.R. Bhalerao	Associate Professor	VDCoAB, Latur	Ph.D. (Biotech.), NET
	Dr. R.L. Chavhan	Assistant Professor	VDCoAB, Latur	Ph.D. (Biotech.)
	Dr. Y.S. Bhagat	Assistant Professor	VDCoAB, Latur	Ph.D. (Biotech.), NET

	Associated Faculty of Plant Biotechnology			
	Dr. B.N. Aglave	Associate Professor	VDCoAB, Latur	M.Sc.,Ph.D.(Agronomy)
	Associated Faculty shared from College of Agriculture and Oilseed Research Station			
	Dr. M.V. Dhuppe	Associate Professor	ORS, Latur	Ph.D. (GPB)
	K.D. Dahiphale	Assistant Professor	ORS, Latur	M.Sc., NET (Ento.)
	S.V. Waghmare	Assistant Professor	CoA, Latur	M.Sc., NET (Patho.)
2.	**Division of Microbial and Environmental Biotechnology**			
	Core Faculty of Microbial and Environmental Biotechnology			
	Dr. V.D. Surve	Associate Professor	VDCoAB, Latur	Ph.D. (Food Sci. Tech.)
	K.M. Sharma	Assistant Professor	VDCoAB, Latur	M.Sc.(Agril. Biotech.)
	Associated Faculty from PG Programme of VDCOAB, Latur			
	Dr. M.S. Dudhare	Associate Professor	VDCoAB, Latur	Ph,D.(Biotech.), NET
	Associated Faculty shared from Division of Plant Biotechnology			
3.	**Division of Animal Biotechnology**			
	Core Faculty of Animal Biotechnology			
	Dr. R.N. Dhawale	Assistant Professor	VDCoAB, Latur	M.Sc. Ph.D. (Biotech.)
	Associated Faculty shared from College of Agriculture, Latur			
	Dr. A.T. Shinde	Associate Professor	CoA, Latur	Ph.D., NET (Dairy Sci.)
4.	**Bioinformatics Section**			
	Associated Faculty from PG Programme of VDCOAB, Latur			
	Dr. V.R. Hinge	Assistant Professor	VDCoAB, Latur	Ph.D. (Biotech.), NET
	Associated Faculty on Contractual Basis			
	Dr. D.J. Wankhade	SRA	VDCoAB, Latur	Ph.D.(Biotechnology)
	Associated Faculty shared from College of Agriculture, Latur			
	M.M. Bhogonkar	Assistant Professor	CoA, Latur	M.Sc.(Math)., B.Ed.
5.	**Teaching staff recruited on contractual basis for General/ Supporting Courses**			
	R.S. Swami	ICT-231, ICT-352	Contractual	M.Tech. (Computer Sci.)
	S.P. More	ECON-231, EDBM-241	Contractual	B.Sc.(Agri.),M.B.A.
	Dr. M.B. Kumbhar	PHY-241, BT/ECE-241	Contractual	M.Sc.(Physics), B.Ed.SET
	Dr. J.H. Gaikwad	STAT-121, STAT-362	Contractual	Ph.D. (Statistics)

b. Deviation in the faculty position with respect to ICAR V Deans' Committee:

As per the ICARs V Deans' Committee recommendations, the B.Tech.(Biotechnology) degree programme, following Additional Posts across the various divisions/ section are required

and proposal for the additional faculty as per V Deans' Committee is submitted to the State Government.

Table 4: Deviation in the faculty position with respect to ICAR V Deans' Committee

Sr. No.	Name of Post	No. of Staff as per V Deans' Committee Recommendations	Sanctioned Staff	Additional Requirement of Staff
Teaching Staff				
1	**Associate Dean and Principal**	1	1	0
2	**Professor**	4	1	4
3	**Associate Professor**	8	5	3
4	**Assistant Professor**	22	5	17
Total No. of Teaching Staff (A)		**35**	**12**	**24**

c. Part-time faculty shared from other degree programme:

Besides this, the faculty of other degree programme, Research staff, Extension staff, Contractual faculty, Guest faculty and Adjunct faculty were also contributed to complete the curriculum of UG degree programme as detailed below in **Table 5**:

Table 5: Part-time faculty shared from other degree programme

Sr. No.	Name and Qualification of Guest faculty, Faculty from Research Station, Colleges, Contractual Teacher	Name of the College/ Dept. from whom help is taken to complete the curriculum	Courses taught	Title of the Course	Acad. Year	Remarks
2018-19						
1.	M.M. Bhogaonkar	College of Agriculture, Latur	MATH-111, MATH-122	Basic Mathematics-I, Basic Mathematics-II	2018-2019	Adjunct faculty
2.	Dr. M.G. Tawade	-	CSPD-111	English Communication Skill & Personality Development	2018-2019	Guest faculty
3.	Dr. Syed Khaja A	-	DEG-111 HD-111 ECON-231	Democracy, Elections and Good Governance Human Ethics	2018-2019	Guest faculty

				Economics and Marketing		
4.	Dr. S.S. Shrungare	College of Agriculture, Latur	PHY-121	Physical education	2018-2019	Adjunct faculty
2019-20						
1	M A. Gawali	-	MATH-111 MATH-233 STAT-121	Basic Mathematics- I Biomathematics Statistics	2019-2020	Guest faculty
2.	Dr. M.G. Tawade	-	CSPD-111	English Communication Skill & Personality Development	2019-2020	Guest faculty
3.	Shaikh S. S.	-	EDBM -241	Entrepreneurship Development and Business Management	2019-2020	Guest faculty
4.	R C. Jain	-	BT/ECE-241	Fundamentals of Electronics and Instrumentation in Biotechnology	2019-2020	Guest faculty
5.	Dr. M. B. Kumbhar	-	PHY-241	Biophysics	2019-2020	Guest faculty
6.	M.M. Bhogaonkar	College of Agriculture, Latur	MATH-111, MATH-122	Basic Mathematics-I, Basic Mathematics-II	2019-2020	Adjunct faculty
7.	Dr. S.S. Shrungare	College of Agriculture, Latur	PHY-121	Physical education	2019-2020	Adjunct faculty
2020-21						
1.	Syed Khaja A.	-	ECON-231	Economics and Marketing	2020-2021	Guest faculty
2.	Shaikh S. S.	-	EDBM -241	Entrepreneurship Development and Business Management	2020-2021	Guest faculty
3.	Dr. M. B. Kumbhar	-	PHY-241	Biophysics	2020-2021	Guest faculty
4.	R C. Jain	-	BT/ECE-241	Fundamentals of Electronics and Instrumentation in Biotechnology	2020-2021	Guest faculty
5.	Dr. M.G. Tawade	-	CSPD-111	English Communication Skill & Personality Development	2020-2021	Guest faculty
6.	M.M. Bhogaonkar	College of Agriculture, Latur	MATH-111, MATH-122	Basic Mathematics-I, Basic Mathematics-II	2020-2021	Adjunct faculty
7.	Dr. S.S. Shrungare	College of Agriculture, Latur	PHY-121	Physical education	2020-2021	Adjunct faculty
2021-22						
1.	Laxmikant Ingale	-	ZOO-121	Basic Zoology	2021-2022	Guest faculty

2.	Dr. M. B. Kumbhar	-	PHY-241	Biophysics	2021-2022	Guest faculty
3.	R C. Jain	-	BT/ECE-241	Electronics and Instrumentation in Biotechnology	2021-2022	Guest faculty
4.	Dr. M.G. Tawade	-	CSPD-111	Communication Skill & Personality Development	2021-2022	Guest faculty
5.	Dr. Syed Khaja A	-	HD-111 DEG-111 EDBM -241	Human Ethics Democracy, Elections and Good Governance Entrepreneurship Development and Business Manag,	2021-2022	Guest faculty
6.	R.S. Swamy	-	ICT-231 ICT-352	Information & Communication Technology Agricultural Informatics	2021-2022	Guest faculty
7.	M.M. Bhogaonkar	College of Agriculture, Latur	MATH-111, MATH-122	Basic Mathematics-I, Basic Mathematics-II	2021-2022	Adjunct faculty
8.	Dr. S.S. Shrungare	College of Agriculture, Latur	PHY-121	Physical education	2021-2022	Adjunct faculty
2022-23						
1.	Dr. M.G. Tawade	-	CSPD-111	English Communication Skill & Personality Development	2022-2023	Guest faculty
2.	Vikas Waghmare	-	HD-111 DEG-111	Human Ethics Democracy, Election and Good Governance	2022-2023	Guest faculty
3.	S.M. Datkar	-	BOT-232	Plant Physiology	2022-2023	Guest faculty
4.	R.S. Swamy	-	ICT-231 ICT-352	Information & Comm. Technology Agricultural Informatics	2022-2023	Guest faculty
5.	Dr. Jivan Gaikwad	-	ECON-231 STAT-362	Economics and Marketing Biostatistics	2022-2023	Guest faculty
6.	Dr. S.S. Shrungare	College of Agriculture, Latur	PHY-121	Physical education	2022-2023	Adjunct faculty
7.	M.M. Bhogaonkar	College of Agriculture, Latur	MATH-111, MATH-122	Basic Mathematics-I, Basic Mathematics-II	2022-2023	Adjunct faculty

6.4.3. Technical and Supporting Staff

The details of technical, administrative and supporting staff sanctioned by Govt. of Maharashtra is furnished as under,

a. Details of technical, administrative and supporting staff of the college

Table 6: Details of technical, administrative and supporting staff of the college

Sr. No.	Name of Division	Name of the Posts	Sanctioned post	Filled	Vacant
Administrative staff:					
1	Administrative section	Assistant Registrar	01	-	01
		Senior Clerk	01	01	-
		Steno	01	-	01
		Jr. Clerk	02	01	01
		Cashier	01	01	-
		Peon	02	01	01
		Driver	02	-	02
Division wise Technical and Supporting staff					
2.	Plant Biotechnology	SRA	02	01	01
		Store keeper	01	01	-
		Agril. Assistant	02	02	-
		Laboratory Assistant	02	-	02
		Laboratory Assistant		01	
		Peon	02	01	01
		Labour		01	
		Junior Research Fellow		01	
		Project Associate		02	
		Technical Helper		02	
3.	Microbial and Environmental Biotechnology	SRA	02	-	02
		Clerk	01	-	01
		Laboratory Assistant	01	01	-
		Lab boy	01	01	-
		Peon	02	01	01
4.	Animal Biotechnology	Animal Attendant	01	-	01
Note: Existing Administrative, Technical and supporting staff has made available to the different divisions/ Sections sanctioned for B.Tech.(Biotechnology) degree programme as per V Dean' Committees recommendations. The supporting staff i.e. project associate/ technical helpers/JRF appointed on ad-hoc projects (contractual) are being used to execute UG degree programme at this college. *Farm staff appointed on contractual basis as and when required*					

b. Deviation in the supporting staff with respect to ICAR V Deans' Committee:

As per the ICARs V Deans' Committee recommendations, the B.Tech.(Biotechnology) degree programme, following Additional Posts of **Technical and Supporting Staff** across the various divisions/ section are required and proposal for the same is submitted to the State Government.

Table 7: Deviation in the Technical and Supporting Staff Position with respect to ICAR V Deans' Committee

Sr. No.	Name of Post	Required No. of Staff as per V Deans' Committee	Sanctioned Staff	Filled post	Vacant as per V Deans' Committee
Technical and Supporting Staff					
1	Department Assistant (1 in each department)	4	0	0	4
2	Steno	3	1	0	3
3	Computer Operator (3 i.e.1 for each of three department; 5 for Bioinformatics Department)	8	0	0	8
4	Junior Clerk (1 for each department)	4	2	1	3
5	Laboratory Assistant (18 for three department, 1 for section)	19	4	2	16
6	Class-IV Assistant (2 for each department)	8	6	3	5
7	Field Employee* (3 for each of three department)	9	2	2	7
Total No. of Staff (B)		**55**	**15**	**09**	**46**

**Farm staff appointed on contractual basis as and when required*

6.4.4. Classrooms and Laboratories

a. Information on Classrooms for UG programme

All the classrooms have ergonomically well-furnished dual-desks and having the generator back-up towards uninterrupted power supply, interactive board, audio -visual facility and internet Wi-Fi facility. The same classrooms are utilized as Examination Hall for conduct of semester end examinations.

Table 8: Number of Classrooms for UG Programme with facilities (03)

Capacity of Classrooms (No. of Students/ Classroom)		
Classroom-1	**Classroom-2**	**Classroom-3**
60	**60**	**60**
Also used as Auditorium and Examination Hall; LCD Projector and Screen	Interactive Board with LCD Projector and Screen	Interactive Board with LCD Projector and Screen
Area: 12 x 10.5 M	Area: 12 x 10.5 M	Area: 12 x 10.5 M

NOTE: These classrooms are sufficient for the current studying strength of students (i.e. around 50 per year); which are comfortably accommodating the theory classes and seminars.

b. Information on Laboratories for UG programme

The college has three division's *viz.*, Plant Biotechnology, Microbial and Environmental Biotechnology, Animal Biotechnology and one section i.e. Bioinformatics **(Table 9)**. Moreover, the separate instrument cell and Bioinformatics sectional laboratory facilities are available for conducting practical classes of the UG students. The divisional laboratories are equipped with most of the sophisticated instruments **(Table 10)**, which enables to conduct student research work, routine practical's and to execute research mandate of externally funded projects sanctioned by DBT/ DST/ SERB/RKVY funding agencies at this college. All the laboratories have 24x7 Internet connectivity.

Table 9: Details of Laboratory Facilities

Sr. No.	Name of Laboratory	Space	Capacity (No. of students)	Utility
1	Plant Biotechnology Laboratory	14 x 8 M	50	Utilized for conducting UG practicals and Hands-on-Training programme
2	Microbial and Environmental Biotechnology	14 x 8 M	50	
3	Animal Biotechnology Laboratory	14 x 8 M	50	
4	Bioinformatics Laboratory	14 x 8 M	50	
Central Instrumentation Facility				
1	CIF	7 x 5 M	25	Utilized for conducting UG practicals
Other Facilities				
1	Greenhouse/ Shadenet House (2)	-	-	Utilizing for student's practicals, dissertation work and externally funded projects research work.
2	Transgenic Greenhouse (2)	-	-	
3	Polyhouse (4)	-	-	

Moreover, as per the V Deans' Committee recommendations, the B.Tech. (Biotechnology) degree program has been implemented during the academic year 2017-18. The upgradation is in progress to explore the available laboratory infrastructure of the previous B.Sc. (Agri. Biotechnology) degree programme as per infrastructure of B.Tech. (Biotechnology) degree program (Division of Plant Biotechnology, Microbial and Environmental Biotechnology, Animal Biotechnology and Bioinformatics section) as specified in the V Deans' committee recommendations. In addition to these, separate Bioinformatics sectional laboratory and two Central Teaching and Research Laboratories (CTRL) equipped with advanced equipments are available to UG students **(Table 11)**.

Table 10: Equipments available in the Laboratories

Sr. No.	Name of Equipment	Quantity
A. Division of Plant Biotechnology		
1	-20°C freezer (Bluestar®)	1
2	-80°C freezer (NBS®)	1
3	Laminar Flow (Microfilt®)	1
4	High speed centrifuge (Eppendorf®)	1
5	Hot air oven (Labtop®)	1
6	Ice Flaker (Bluestar®)	1
7	Horizontal autoclave	1
8	Distillation Unit	2
9	Plate reader (Biotrak®)	2
10	Gel Documentation Unit (Syngene®)	1
11	Femtolet (Eppendorf®)	1
12	Weighing balance (Sartorius®)	2
13	pH meter (Elico®)	1
14	pH meter (Mettler Toledo®)	1
15	UV Transilluminator (Hoefor®)	1
16	Magnetic Stirrer (Remi®)	1
B. Division of Microbial and Environmental Biotechnology		
1	-20°C freezer (Siemens®)	1
2	Microscope (Labomed®)	10
3	Centrifuge (Eppendorf®)	2
4	UV Transilluminator (Macrovue®)	1
5	Autoclave (Equitron®)	2
6	Orbital Shaker incubator (Remi®)	1
7	Vertical Electrophoresis Unit	2
8	Horizontal Electrophoresis Unit	1
9	Desiccators (Rivotek®)	1
10	Fermentor (New Brunswick Scientific®)	1
11	Soxhlet Extractor (Scientifa®)	1

C. Division of Animal Biotechnology		
1	CO_2 incubator (Thermo Scientific®)	1
2	Thermal cycler (Eppendorf®)	1
3	Microscope (Labomed®)	2
4	pH meter (Elico®)	1
5	Weighing balance (Sartorius®)	1
6	Magnetic stirrer (Remi®)	1
7	Binocular-Microscope (Labomed®)	30
D. Bioinformatics Section (Accessories/ Softwares)		
1	LENOVO® Desktops	12
2	HP® Color LaserJet Printer	01
3	HP® Photocopier	01
4	Server	01
5	BSNL Leased Line (1:4) Internet connectivity in LAN	01
6	Utilization of online and stand-alone packages *viz.*, ExcelStat, PHYLIP, ClustalW, SPSS, SAS 9.3, AutoDock, WinQTL, QTLICI mapping, PCA, NTSYS, AntMap, Duolingo© Language lab etc.	-

Table 11: Equipments available at Central Instrumentation Facility

E. Central Instrumentation Cells		
Sr. No.	**Name of Equipment (Make)**	**Quantity**
1	Hybridization Oven (Amarsham Biosciences®)	1
2	Fermenter (NBS, USA)	1
3	Spectrophotometer (Shimadzu®)	1
4	Ultra Centrifuge (Hitachi®)	1
5	RT-PCR (Eppendorf®)	1
6	Gel Documentation unit (Alpha Innotech®)	1
7	DNA concentrator (Thermo Scientific®)	1
8	HPLC Unit (Hitachi®)	1

c. Information on Farm facilities available for UG programme

Around 20 acres of farm is available near the college for cultivation of various crops in *Kharif* and *Rabi* seasons for seed production purpose. Also, the same land is being utilized for Crop Cafeteria and Instructional Farm for conducting various field-experiments/ practicals. The college is also having the farm machinery and implements to perform regular field preparatory

and intercultural operations. Supporting staff viz., Agril. Assistant, Labour and Tractor Drivers are appointed for smooth conduct of farm operations.

Table 12: Information on Farm Facilities available for UG degree programme

Sr. No.	Name of farm facility	Area	Remark
1. Division of Plant Biotechnology			
1	UG/PG Instructional-cum-Research farm	2 ha	For conducting UG/ PG practicals, READY programme, dissertation works, raising crop cafeteria and erected greenhouses, polyhouses and transgenic greenhouses.
2. Division of Microbial and Environmental Biotechnology			
1	UG/PG Instructional-cum-Research farm	1 ha	For conducting UG practicals and PG research work
3. Division of Animal Biotechnology			
1	UG/PG Instructional-cum-Research farm	1 ha	For conducting UG and PG practicals, READY programme, dissertation works,

At the beginning of each course and while conducting each laboratory exercise, the students are being oriented with 'Good Laboratory Practices' as well as the safety guidelines. Biological waste generated by variety of research is treated by thermal or chemical disinfection, or by incineration. The deep burial pits for scientific disposal of the biological waste are constructed by college at suitable site. Students, Researchers and Workers are instructed to follow strict rules in disposal of any hazardous wastes generated during the laboratory experiments.

As a step to introduce a commercial approach in Agriculture, a demonstration cum transgenic research containment facility, greenhouse and polyhouse units have erected on the college campus along with farm power machineries and irrigation facilities. The college has two shednet houses, two transgenic greenhouse and four polyhouse units, which are being utilized to execute student's practicals, dissertation work and externally funded projects research work.

6.4.5. Conduct of Practical and Hands-on-Training

It is important to have a sound grasp of the theory that underlies any professional degree. But there are some skills that can only be learned through hands-on -practice. It is important that much of the learning material in any given course should be provided in a way that allows students to get as involved as possible to increase their knowledge and abilities. Clearly mention

how far students are getting desired practical and hands-on-training as per the curriculum and meeting above mentioned requirements.

a. Conduct of Practical

The college encompasses well equipped Research Laboratories, one each in all of the divisions. In addition to Teaching Laboratory, Central Instrumentation Facility, Transgenic Greenhouse and Shednet facilities are available at college to impart practicals and hands-on-training to the students as shown in **Tables 13**.

Table 13: Information on conduct of theory and practical batches for UG degree

Sr. No.	Academic Year	Theory batches	Practical batches
1	2018-19	1	2
2	2019-20	1	2
3	2020-21	1	2
4	2021-22	1	2
5	2022-23	1	2

b. Student READY

As per revised course curriculum and syllabus of **B.Tech. (Biotechnology)** and recommendations of V Deans' Committee (ICAR), New Delhi **'Student READY'** programme is implemented with 20 credits each in VII and VIII semester. The students of VII semester are undergoing In-House Skill Development Modules (**READY-PB-471**) with 20 credits whereas students of VIII semester undergo **READY-483** i.e. Entrepreneurial Development in Biotechnology (on-campus/off Campus) with 10 credits and **READY-482** i.e. Project Formulation, Execution and Presentation with 10 credits. The students of VIII semester are allowed to work on independent project in the area of Plant Biotechnology, Plant Biochemistry and Molecular Biology, Food Biotechnology and Animal Biotechnology. The READY students also get an opportunity to work on live projects i.e. DNA fingerprinting services on commercial basis under DNA Fingerprinting Project of the college and Commercial Plant Tissue Culture Unit operated at University Headquarter. **The Dept. of Agriculture (Govt. of Maharashtra)** recognized and granted this college as a Centre for **'DNA Fingerprinting Laboratory'**; which is eventually expanding the research infrastructure for the UG Teachers and also UG Students through their active involvement and exploring their research horizons. The revenue to the tune of approx. **Rs. 30.00 Lakhs** was received by the college from different public and private sectors.

Project Guide (Incharge) and Module Incharge is appointed by the respective Associate Dean & Principal of the college to each student, who will help the College Committee to choose the topic from above areas, prepare scheduling of the project work and look after his/ her routine project work as a Guide. In case of outside institutes, **'Module Incharge'** is appointed from that institute/ organization along with Project Guide, who will guide the trainee student.

The READY-Coordinator proposes the names of Members of Committee and submit to the Associate Dean and Principal of the college/ Dean of the University for the approval. For smooth and efficient execution of said programme, **Monitoring and Internal Evaluation** and **External Evaluation committee** are formulated at Colleges and University levels, respectively. Evaluation committee is to be formulated at the University level.

The Associate Dean & Principal of constituent Biotechnology College/ Incharge of Biotechnology Center of the respective University may propose this committee and submit to the Dean, Faculty of Agriculture of the respective University for the approval. The Mid-Term assessment will be done by external examiner in mid of semester. At end of semester, students are evaluated for 1000 marks by the Evaluation Committee(s) approved by the Dean, Faculty of Agriculture, VNMKV, Parbhani.

6.4.6. Supervision of Students in PG/ Ph.D. Programmes: Not Applicable

6.4.7. Feedback of Stakeholders

College has well defined feedback mechanism for different stakeholders i.e. students, parents, industries and farmers. A regular exercise was made to collect the feedback of stakeholders by Google forms, WhatsApp group, Register Notebook etc. With the goal of excellent education for students, VDCOAB, Latur is actively involved in understanding and responding the students' needs. Student stakeholders are distinguished by level of undergraduate and postgraduate programs for their feedback. College has also identified other stakeholders such as Parent, Industry and Farmers on the basis of their relationship with the University and their needs. Major stakeholders are identified by college are described in below table with their requirements and expectations (Table 14).

The stakeholder's expectations and needs are identified through Faculty-Student interaction, Advisor-counseling system, Student and Parent Orientation programme, Meetings with parents, Board of Studies, Meetings with industry persons, Online students confidential

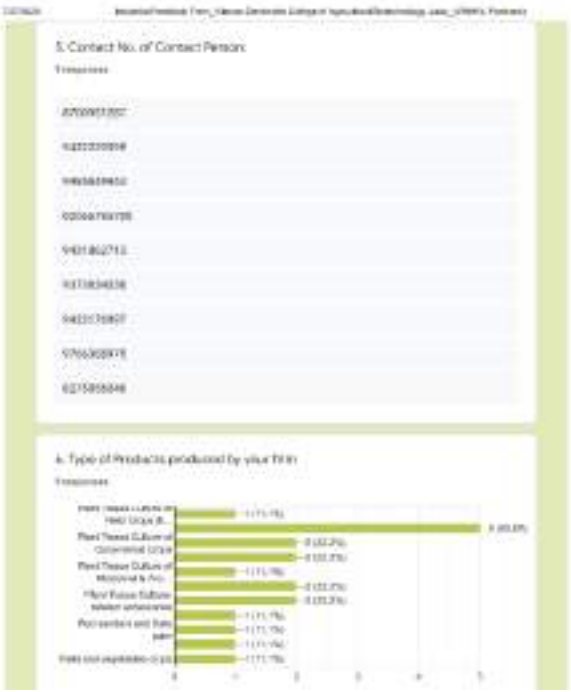
feedback mechanism i.e. **PROMT®** software developed by DBT and various program review like BCIL, DBT, Dialogue with the Vice-Chancellor, Dean as well as ADP and interaction with students regarding the educational facilities, their requirements and expectations.

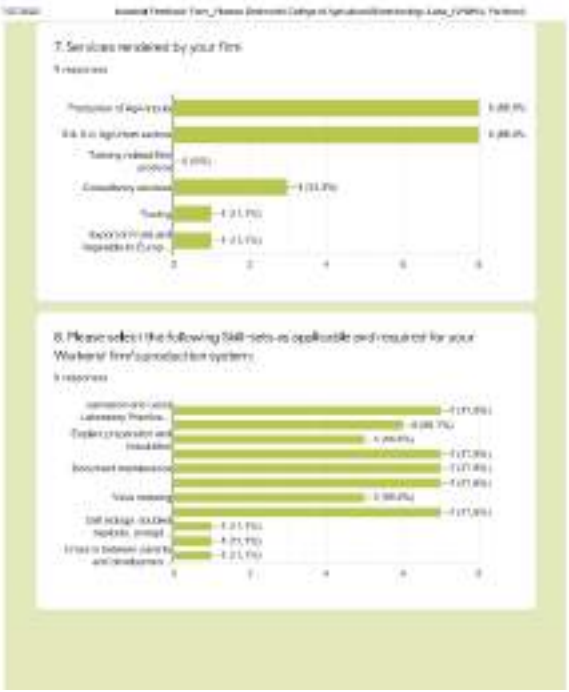
Table 14: Details of Feedback of Stakeholders

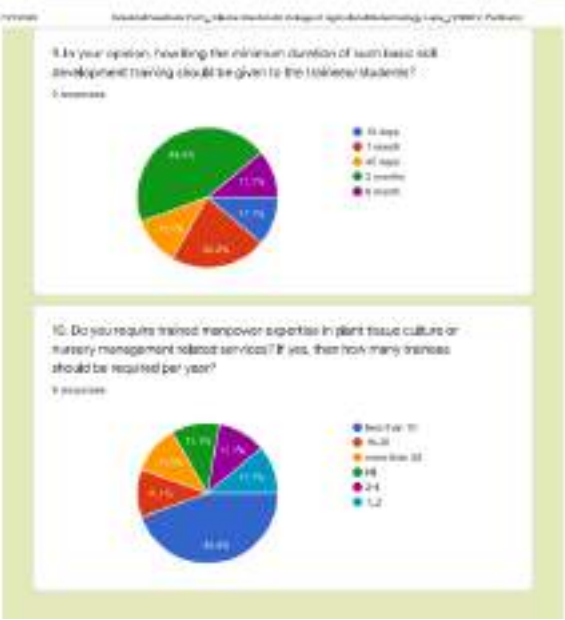
Sr. No.	Stake Holders	Expectations and Requirements	Action Taken by College/University in last five years
1.	**UG Students**	Conduct of classes, quality instruction, Conduct of Hands-on-practicals, Establishment of Educational forum, To promote for national fellowships and training programmes, ICAR and DBT-GAT-B examination guidance and Personal health problems, Hostel good living conditions, food, Demand for Hostel amenities, Entertainment, safety, comfort internet facilities, Celebration of Biotechnology and Science days, Sport and Gymnasium facilities, Students placement etc.	The actions have been taken over students' expectations and requirements generated during adoption of feedback mechanism executed by variety of ways and resulted into; • Concerns problems voiced by students are solved by counselling by respective advisors. • Orientation programme are conducted. • Conducted regular classes and practicals. • Conducted Hand-on-Practicals. • Students selected for DBT-GAT-B fellowships. • Provided food and comfort hostel facilities. • Internet facility is provided. • Gymnasium facility is provided. • Conducted various cultural programmes and sport activities at college. • The days like Biotechnology, Youth and Science days are celebrated at college.
2.	**Parents**	Safe environment, affordability, quality education, good jobs, Students progress information and discussion with parents.	• Provided safe environments to Girl student within the campus. • Provided quality education to the students. • Adopted parent discussion programme, meetings with parents
3.	**Industry**	Interest of student in various fields, Basic hands-on-practical knowledge, Research topic for PG students should be industry need based	• Board of Studies Meetings with industry persons, • Orientation programme with Bankers, • Business Management faculties from other institutions.
4.	**Farmers**	Demonstrations of improved package of practices, Skill development with special	• On & Off Campus Field, Front-line demonstrations were conducted regarding PTC, Seed Treatment, and

		reference to Agri-Biotech sector, Extension Programmes organization towards more interaction with University-Scientists.	Biofertilizers etc. • Various special trainings were organized on “advances in Biotech. and Bioinformatics etc.” • Framers Rally, Field-Visits, Field days, Discussions, Lectures were delivered.

Format for collecting feedback from Industries

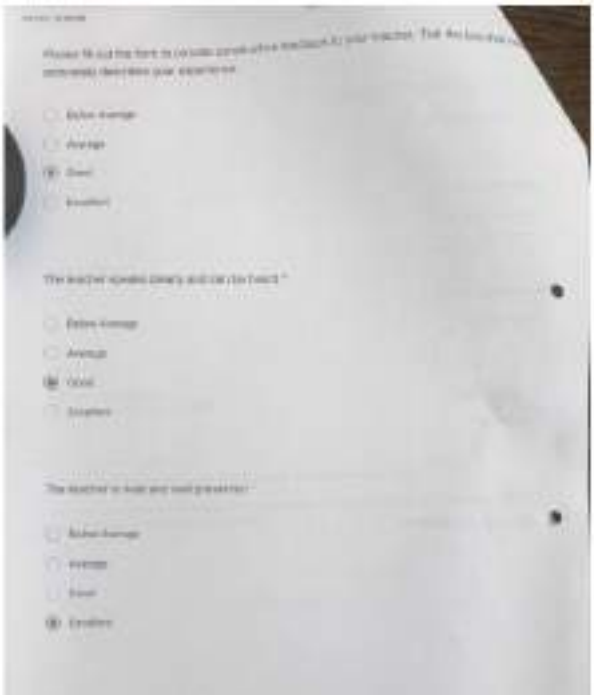

5. Contact No. of Contact Person
6. Type of Products produced by your firm

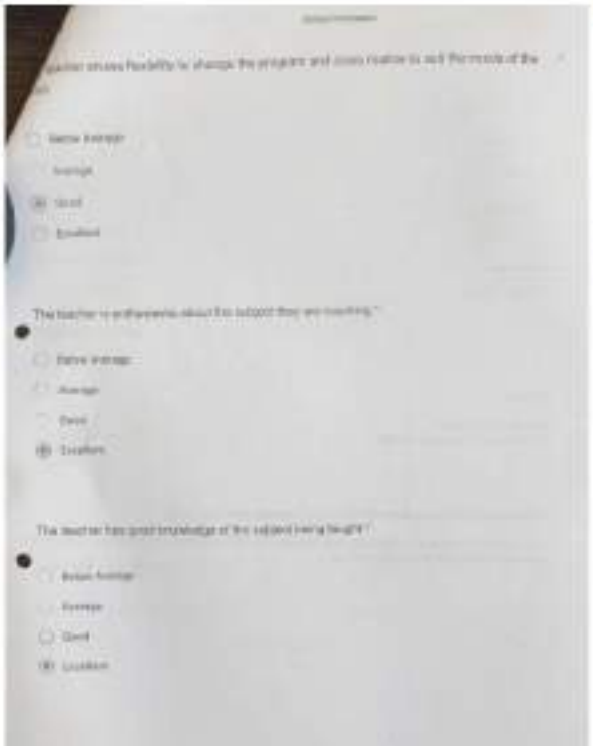

7. Services rendered by your firm
8. Please select the following Skill-sets as applicable and required for your Workers' firm's production system:


9. In your opinion, how long the minimum duration of such basic skill development training could be given to the trainees/ students?
10. Do you require trained manpower expertise in plant tissue culture or nursery management related services? If yes, then how many trainees should be required per year?

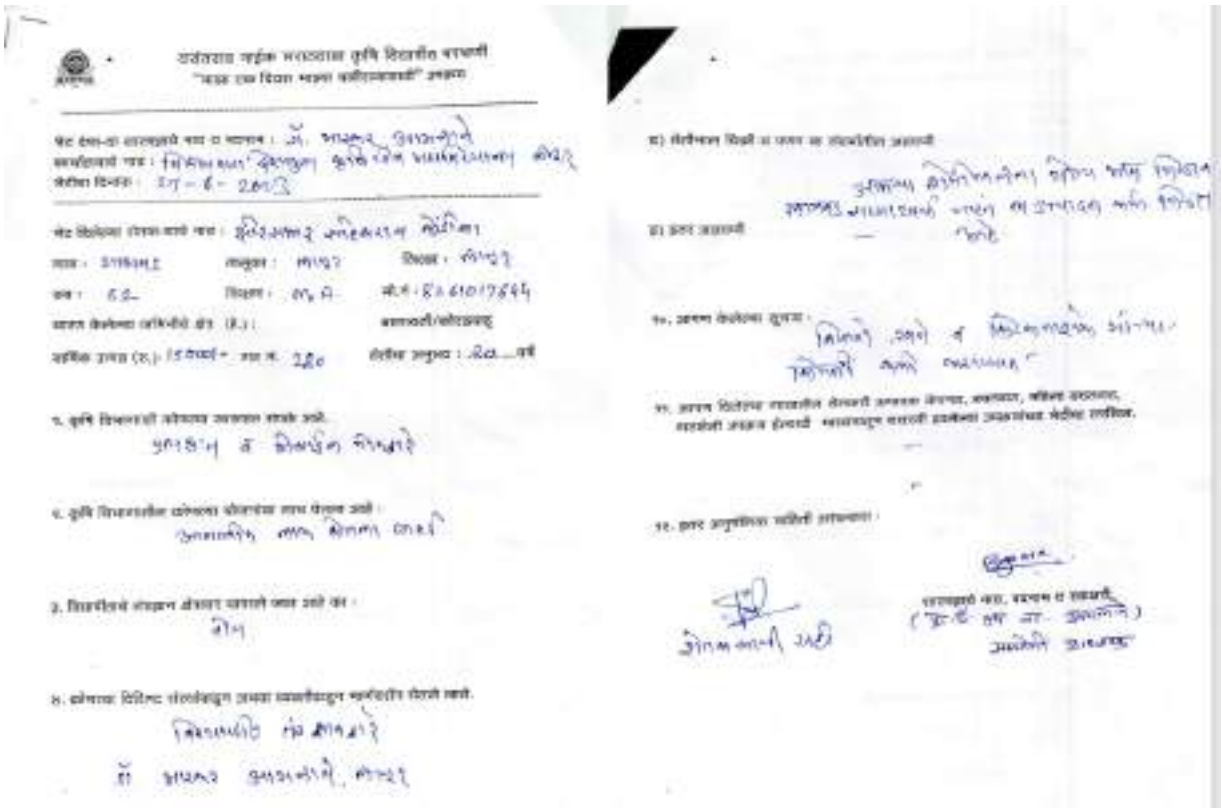

11. What should be the minimum qualification of trained manpower which would be preferred by your organisation's as a Tissue culture/ Agri-Biotech industry?
12. Whether your industry is willing to provide or providing the short Internship program for such trainees?

Format for collecting feedback from Students'





Documentary Proof for Mechanism for Farmers Feedback Collection



6.4.8. Student Intake and Attrition in the programme for last five years:

Table 15: Year-wise Student Intake and Attrition

Name of Degree programme	Actual student admitted in last five years					Attrition (%)				
	2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
B.Tech. (Biotech.)	39	36	39	41	43	5 (12.8%)	1 (2.7%)	2 (5.12%)	4 (9.75%)	0 (0%)

6.4.9. ICT Application in Curricula Delivery

As an integral part of Modern Education system, the initiative towards incorporating the ICT tools and technologies in this college has been taken. Tools like, PowerPoint presentations, Interactive Smart Board, Language & Communication Skill development using Language Lab Software, Use of e-Assignments, Use of social media for supporting the communication among

students and faculty members, Open Access to students to browsing, CERA, Online ICAR e-Courses, ICAR-Krishikosh© and other databases through dedicated (24x7, 8 Mbps, 1:4) internet connectivity, Wi-Fi facility in the College, Online Fees/ Fine collection/ Registration, Education link of College on University portal, easy access to information and communication (e-mail, web, blogs, wikis etc).

6.4.12. Certificate

C E R T I F I C A T E

I, the Dean, ***Dr. Babasaheb M. Thombre*** *hereby certify that the information contained in the section 6.4.1. to 6.4.9. are furnished as per records available in the College and degree awarding University.*

Signature of Dean of the College with date & seal

6.4 Self study report of Post-Graduate Programme

6.4.1. Brief History of the Degree Programme:

The Post Graduate programme in **M.Sc. (Agri. Biotech.)** was started in the year 2001 at VNMKV, Parbhani with financial support from Department of Biotechnology (GoI), New Delhi, subsequently the program was shifted to Latur from September, 2009 as the Faculty of Biotechnology was started at Latur campus in the year 2006. The intake capacity for PG Programme is 38 [30 students from DBT (GoI), New Delhi and 8 students from the State of Maharashtra].

The degree programme was initiated by the University with the following objectives:

➢ Objectives:

1. To impart education at post-graduate level for human resource development in Agricultural Biotechnology,
2. To carry-out research in the field of Agril. Biotechnology to enhance the quality of long term improved productivity of the regional and other crops.

➢ Accomplishments:

1. Successfully imparted the education and research training to **117** students at post-graduate level towards efficient human resource development in Plant Biotechnology since the academic year 2003.
2. Students carried-out the academic research on various frontier and need-based areas like, Plant Tissue Culture in field and medicinal crops, Molecular marker technology towards improvement in crop productivity, Nano-Biotechnological approaches, Transformation studies in priority crops, Gene expression studies for biotic and abiotic stress resistance etc. in the field of Agril. Biotechnology to enhance the quality of long term improved productivity of the regional and other crops.
3. PG Students theses-works are published in reputed scientific journals across national as well as international fronts.
4. Students and Faculties of this college were received various awards in National and International conferences/ symposia/ seminars for paper and poster presentations

5. Faculties of this college have submitted various projects, through which funding to the tune of approx. Rs. 2.5 Crores were received by this college from different funding agencies.
6. **Around 12 PG students** of this college were selected for pursuing **Ph.D. degree** in various recognized institutions including **IIT** during **2018-2023**.
7. Well-equipped **Plant Tissue Culture Laboratory** was established under the ad-hoc project funded by DBT (GOI), New Delhi during **2014-15**.
8. This College has received the **Incentive Awards for Publications for the years 2016 and 2017** from DBT (GOI), Biotechnology Information System Network, Ministry of Science & Technology, New Delhi for securing the third position in the category of Bioinformatics Infrastructural facility (Colleges).
9. The Dept. of Agriculture (Govt. of Maharashtra) recognized and granted this college as a Centre for **'DNA Fingerprinting Laboratory'**; which is eventually expanding the research infrastructure for the PG teachers and students through their active involvement and exploring their research horizons.
10. Dr. Vikas Gupta and Dr. Vikas Patade, PG passout students of this college are working as **Senior Scientist** in DRDO.
11. Numbers of PG students were recruited in various State Departments of Agriculture and Forestry reputed MNCs, Seed Companies and other Cooperative/ Private firms and Banking sector.
12. As per BSMA, the post-graduate degree programme nomenclature is modified from Academic Council meeting held on 8th April, 2023 and a syllabus is being implemented accordingly.

6.4.2. Faculty Strength:

The details of approved academic staff for PG programme is given in Table 16.

Table 16: Details of faculty strength for PG Programme

Sr. No.	Name of the Posts	Sanctioned Post	Filled	Vacant
1.	Professor	01	00	01
2.	Associate Professor	02	01	01
3.	Assistant Professor	02	01	01
	Total	05	02	03

NOTE: Faculties assigned the responsibilities for multiple programmes considering their work-load (i.e. UG and PG). The faculty shared from campus i.e. College of Agriculture, Latur; also course teachers appointed on credit-basis (contractual) are being exploited to execute PG degree programme at this college.

Table 17: Details of the Faculty associated with PG degree programme

Sr. No.	Name of the Faculty	Designation	Qualification
Teaching Faculty of VDCOAB, Latur			
1.	H.B. Patil*	Associate Professor	M.Sc.(Biochem.)
2.	Dr. B.N. Aglave*	Associate Professor	M.Sc. Ph.D. (Agronomy)
3.	Dr. V.D. Surve*	Associate Professor	M.Tech. Ph.D.(Food Tech.)
4.	Dr. A.A. Bharose*	Associate Professor	M.Sc. Ph.D. (Biotech.)
5.	Dr. S.R. Bhalerao*	Associate Professor	M.Sc. Ph.D. (Biotech.), NET
6.	Dr. M.S. Dudhare	Associate Professor	M.Sc. Ph.D. (Biotech.), NET
7.	Dr. R.L. Chavhan*	Assistant Professor	M.Sc. Ph.D. (Biotech.)
8.	Dr. R.N. Dhawale*	Assistant Professor	M.Sc. Ph.D. (Biotech.)
9.	K.M. Sharma*	Assistant Professor	M.Sc. (Agri. Biotech.)
10.	Dr. V.R. Hinge	Assistant Professor	M.Sc. Ph.D. (Biotech.), NET
11.	Dr. Y.S. Bhagat*	Assistant Professor	M.Sc. Ph.D. (Biotech.), NET
Teaching Faculty shared from College of Agriculture, Latur			
1.	Dr. V.B. Kamble	Professor	M.Sc.(Agri.)Ph.D.(Extension)
2.	Dr. P.N. Karanjikar	Professor	M.Sc.(Agri.)Ph.D.(Agronomy)
3.	Dr. D.D. Suradkar	Assistant Professor	M.Sc.(Agri.)Ph.D.(Extension)
Teaching Staff recruited on credit-basis			
1.	Dr. V.G. Tamberwade	Course Teacher: PGS-501	Ph.D. (Library Sciences)

Note: **Faculty of UG degree programme is shared for PG degree programme*

6.4.3. Technical and Supporting Staff

The details of Technical and supporting staff associated with PG programme of this college are as follows;

Table 18: Details of Technical and Supporting Staff associated with PG programme

Sr. No.	Name of the Posts	Sanctioned Post for PG	Faculty in place (inclusive of supporting faculty from UG Programme)	Vacant position
1.	Assistant Registrar	01	00	00
2.	Senior Research Assistant	00	01	00
3.	Agril. Assistant	02	01	00
4.	Senior Clerk	01	01	00
5.	Cashier	00	01	01
6.	Jr. Clerk	00	01	00
7.	Laboratory Attendant	00	01	00
8.	Lab boy	01	01	00
9.	Peon	02	03	00

- ***Available Supporting Staff under UG Programme is also being utilized for PG Programme***
- ***Farm staff appointed on contractual basis as and when required***

6.4.4. Classrooms and Laboratories of PG Degree Programme

The classroom is well furnace with ergonomic duel desk with interactive board, audio visual and internet facility. The same classroom is used for examination purpose. Two post graduate laboratories are equipped with state of art equipments for PG research.

Table 19: Details of Classroom for PG Programme

Facility	Number	Space (ft.)	Capacity	Remarks
Classrooms	01	46 X 34	40 Students	It is sufficient to meet the course curricula requirement
Functional Laboratories	02	26 X 48	20 Students each	
Central Instrumentation facility	01	24 X 16	20 Students	

Table 20: Details of PG Course-Work

Course Title	Course No.	Credits	Theory	Practical (Batch)
Principles of Biotechnology	MBB 501	2+1	2	1
Fundamentals of Molecular Biology	MBB 502	3+0	3	0
Molecular Cell Biology	MBB 503	3+0	3	0
Techniques in Molecular Biology I	MBB 505	0+3	0	1
Plant Tissue Culture and Genetic Transformation	MBB 504	1+2	1	1
Genomics and Proteomics	MBB 508	2+0	2	0
Introduction to Bioinformatics	MBB 555	2+1	2	1

Table 21: List of Equipments available for Post-Graduate Students Labs

Sr. No.	Name of Equipment (Make)	Quantity
Post-Graduate Laboratory-1		
1	-20^{o}C freezer (Siemens)	1
2	-80^{o}C freezer (New Brunswick Scientific)	1
3	-80^{o}C freezer (Elcold)	1
4	Refrigerator 4^{o}C (Healforce)	1
5	Refrigerator 4^{o}C (Samsung)	1
6	Laminar Flow (Microfilt)	2
7	Microscope (Labomed)	7
8	Centrifuge (Eppendorf)	1
9	Gel Documentation Unit	1
10	Weighing balance (Sartorius)	1
11	Weighing balance (Fivestar)	1
12	Orbital Shaker incubator (Remi)	1
13	Horizontal Electrophoresis Unit	6
14	Microwave Oven (Samsung)	1
15	BOD incubator	1
16	Water bath (Biosan)	1
17	Shaker incubator	2
18	Computers	3
Post-Graduate Laboratory-2		
1	Refrigerator 4^{o}C (Samsung)	1
2	Refrigerator 4^{o}C (LG)	1
3	Laminar Flow (Microfilt)	1
4	Centrifuge (Eppendorf)	1
5	Hot air oven (Unix96)	1
6	Weighing balance (Sartorius)	1
7	pH meter (Elico)	1
8	UV transilluminator (Hoefor)	1

9	Magnetic stirrer (Remi)	2
10	Incubator (Labto)	1
11	Mixmate (Eppendorf)	1
12	Boiling Unit/ Heater (Rivotek)	1
13	Microwave Oven (Samsung)	1
14	GCMS (Varian)	1
15	BOD incubator (Remi)	1
16	Computers with Bioinformatics software (DELL)	1

Table 22: List of equipments at Central Instrumentation facility:

Sr. No.	Name of Equipment (Make)	Quantity
1	Hybridization Oven (Thermo Scientific)	1
2	Spectrophotometer (Hitachi)	1
3	Ultra Centrifuge (Hitachi)	1
4	Thermal cycler (Eppendorf)	2
5	Thermal cycler (BioRad)	1
6	Thermal cycler (Biometra)	1
7	Real time PCR (Eppendorf)	1
8	Gel Documentation unit (Alpha Innotech)	1
9	Gel Documentation unit (Syngene)	1
10	ELISA reader (BioRad)	1
11	Biophotometer (Eppendorf)	1
12	Microscope with Camera (Labomed)	1
13	Minispin (Eppendorf)	1
14	Orbital Shaker (Genexy)	1
15	Protean IEF Cell (BioRad)	1
16	IPGphore (GE Healthcare)	1
17	Concentration Plus (Eppendorf)	1
18	Centrifuge (Eppendorf)	1
19	MixPlate (Eppendorf)	1
20	Kingfisher ml (Thermo Scientific)	1

6.4.5. Conduct of Practical and Hands-on-Training

On commencement of the Post Graduate degree programme, students are oriented with the laboratories and instruments. The hands-on-training are given to the students for proper handling of instruments. The practicals are performed individually. Most of the practicals require more than two days for completion. Students get skills of handling instruments concerning to particular practicals. On first day protocol is explained and chemicals, buffers, stocks and other pre-requisite preparation and sterilization of glasswares and plasticwares are done. Next day working of the instruments is explained and some part of the experiment like, DNA isolation,

restriction digestion, DNA ligation, PCR amplification, Enzyme assay, media preparation and sterilization is actually performed. On third day isolated, digested, ligated and amplified DNA is run on Agarose gel and results are interpreted and explained to students. Similarly, explant is surface sterilized and inoculated on prepared media.

In the IIIrd semester, the independent research works are assigned to the PG students in the various areas of Plant Biotechnology towards the partial fulfillment of Master's Degree Programme, where they fully acquainted with biotechnology tools and techniques and develop expertise.

Table 23: Information on conduct of theory and practical batches for PG degree

Sr. No.	Academic Year	Theory batch	Practical batch
1	**2018-19**	**1**	**1**
2	**2019-20**	**1**	**1**
3	**2020-21**	**1**	**1**
4	**2021-22**	**1**	**1**
5	**2022-23**	**1**	**1**

6.4.6. Supervision of students in PG/PhD programmes

Guide allotment is done as per student merits and preferences according to ICAR guide line. Students academic performance is evaluated on the basis of Assignments/ Practical manual/ Surprise tests/ Presentations.

Associate Dean and Principal takes Daily/Weekly review of teaching programme by often visiting in classroom, laboratory and by interviewing the students.

Allocation of major guide to new students is done as per academic regulations given by ICAR

- **Intake of students : 38 (DBT 30 and MCAER 08)**
- **Number of qualified faculty : 11**
- **Number of M.Sc. students supervised by each Faculty : 1-2/ year**

The post graduates students of each student are approved in the Board of Studies, where the thesis-topics are mostly on need-based research under the chairmanship of respective faculties, who act as Major Research Advisor along with other relevant faculties as Members.

6.4.7. Feedback of Stakeholders

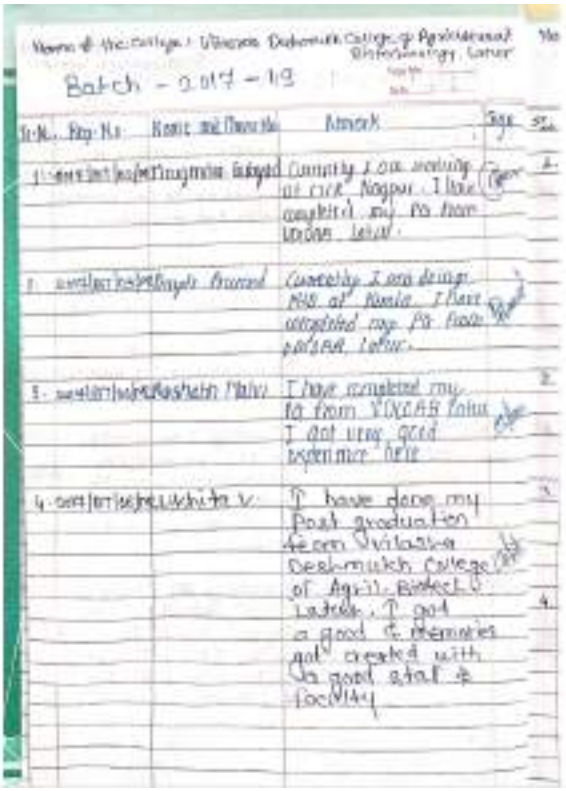
With the goal of excellent education for students VDCOAB, Latur is actively involved in understanding and responding the students' needs. Student stakeholders are distinguished by level of undergraduate, and post graduate programs. College has also identified other stakeholders such as Parent, Industry, Employer and Farmers on the basis of their relationship to the University and their needs. Major stakeholders are identified by college are described in below table with their requirements and expectations. The stakeholder's expectations and needs are identified through faculty-student interaction, advisor counseling system, Student and Parent orientation programme, meetings with parents, Board of studies meeting with industry persons, online student feedback mechanism i.e. **PROMT** software developed by DBT and various program reviews like BCIL, DBT, Dialogue with the Vice Chancellor, Dean as well as ADP and interaction with students regarding the educational facilities, their requirements and expectations.

Table 24: Feedback of Stakeholders regarding PG degree Programme

Sr. No	Stake Holders	Expectations and Requirements	Action Taken by College/University in last five years
1	**PG Students**	Conduct of classes, quality instruction, Conduct of Hands-on-practicals, Establishment of Educational forum, To promote for national fellowships and training programmes, ICAR and DBT-JRF examination guidance and Personal health problems, Hostel good living conditions, food, demand for Hostel amenities, entertainment, safety, comfort internet facilities, Celebration of biotechnology and science days, Sport and GYM facilities, Students placement etc.	The action has taken over students expectations and requirements generated during adoption of feedback mechanism executed by variety of ways and resulted into; • Concerns problems voiced by students are solved by counseling by respective advisors. • Orientation programme are conducted. • Conducted regular classes and practicals, • Conducted Hand-on-Practicals, • Students got admission in the recognized institute for Ph.D. and higher studies. • Provided food and comfort hostel facilities. • Internet facility is provided. • Gymnasium facility is provided. • Conducted various Cultural programmes and Sport activities at college.

			The days like Biotechnology, Youth and Science days are celebrated at college.
2	**Parents**	Safe environment, affordability, quality education, Good Jobs, students progress information and discussion with parents.	Provided safe environments to Girl student within the campus. Provided quality education to the students. Adopted parent discussion programme, meetings with parents
3	**Industry**	Interest of student in various fields, Basic hands-on-practical knowledge, Research topic for PG students should be industry need based	Board of studies meeting with industry persons, Orientation programme with Bankers, Business Management faculties from other institutions.

Documentary Proof for Mechanism for Parent/Student Feedback Collection



Batch - 2017 - 19

Batch - 2018 - 20

Contact information

Documentary Proof for Mechanism for Industry Feedback Collection

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

The PG student's intake and attrition percentage of last five year is mentioned hereunder,

Table 25: Year-wise PG Students Intake and Attrition (%)

Name of Degree programme	Actual student admitted in last five years					Attrition (%)				
	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
M.Sc. (Agri. Biotech.)	17	15	09	09	10	0	0	0	2 (22%)	2 (20%)

6.4.9. ICT Application in Curricula Delivery:

As an integral part of Modern Education system, the initiative towards incorporating the ICT tools and technologies in this college has been taken.

Tools like, Interactive Smart Board, Language & Communication Skill development using Language Lab Software, Use of e-Assignments, Use of Social Media for supporting the communication among students & faculty members, Open Access to students to browsing, CERA, ICAR-Krishikosh & other databases through dedicated (24x7, 8 Mbps, 1:4) internet connectivity, Wi-Fi facility in the College, Online Fees collection/ Registration, Education link of College on University portal, easy access to information and communication (e-mail, web, blogs, wikis etc).

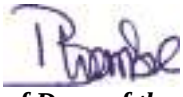
Table 26: ICT applications in curricula delivery

ICT Based Teaching material	Development of web-based literature	Interactive teaching CDs	Audio CDs	Video Clips	Electronic display boards
Yes	Yes	Yes	Yes	Yes	Yes

6.4.12. Certificate

C E R T I F I C A T E

I, the Dean, ***Dr. Babasaheb M. Thombre*** *hereby certify that the information contained in the section 6.4.1. to 6.4.9. are furnished as per records available in the College and degree awarding University.*



Signature of Dean of the College

with date & seal

6.5 SELF STUDY REPORT FOR THE COLLEGE

6.5.1. College Administration

6.5.1.1. College Dean's Office Establishment:

The college is a constituent college of Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani. All educational programmes are implemented as per the recommendations of ICAR model Act and as per guidelines issued by ICAR, New Delhi and Maharashtra Council of Agriculture Education and Research (MCAER), Pune from time to time. Associate Dean and Principal is an authority to guide and monitor the working of the college. He is responsible for implementation and execution of university decisions at college level in respect of education, research and extension. The Associate Dean and Principal is supported by different faculty members and administrative staff.

The Associate Dean and Principal at the college is appointed as per the Maharashtra Agricultural University (Krishi Vidyapeeth) Statutes 1990 & First Amendment 2014. The recruitment board evaluates the performance of the officer being appointed on the post under performance-based appraisal system (PBAS) as provided by the university grant commission (UGC) and recommends the name for the post of Associate Dean and Principal. The University decisions are communicated to respective sections and complied report is regularly sent to respective authority viz; Director of Instruction & Dean (Education), Director of Research (Research), Director of Extension (Extension), Registrar (Administrative) and Comptroller (Finance and Audit) through Associate Dean and Principal.

The present Associate Dean and Principal is appointed from 20th October, 2022. The cabin and rooms of Dean's secretariate are well equipped with wooden furniture, tables, chairs, computers, internet facilities, sofa sets, meeting tables and chairs, refrigerator, aqua guard water purifier, xerox machine, printer, TV for monitoring through CCTV etc. The details of College

Dean's Secretariat and infrastructure/ facilities available in the College Dean's Secretariat are given in the following Tables 27 and 28.

Sanctioned Dean Post	Date of Posting	Mode of selection	Tenure (Years)
Yes	20.10.2022	Nomination	05

Table 27: Details of College dean's Secretariat

Dean's Secretariat	Name of the Posts	Position in place
Administrative Section	Associate Dean & Principal	01
	Senior Clerk	01
	Jr. Clerk	01
	Cashier	01
	Peon	01

Table 28: Infrastructure/ facilities available in the Dean's Secretariat

Conference-cum-Meeting Room with WC facility	01	20 x 10 ft
Associate Dean & Principal's Cabin	01	12 x 10 ft
Associate Dean & Principal's Cabin Anti-chamber with WC facility	01	10 x 10 ft
Guest Room	01	12 x 12 ft

6.5.1.2. Monitoring Mechanism for Quality Education

The Associate Dean and Principal supervise periodically the educational activities of the college. Whereas, for accessing and strengthening teaching activities feedback system has been implemented through respective advisor allocated to the students of every semester. The Associate Dean and Principal is taking regular review of these activities by inviting frequent meetings of the faculty as well as students. Further the academic and research progress review is discussed in the Board of Studies meeting conducted annually and report is submitted to the Director of Instructions, VNMKV, Parbhani for information. The Director of Instruction also invites in house meetings with students and faculty separately and taking review of the educational activities carried out by college. If required for the certain decision on the subjects of students as well as faculty decision is taken at Academic Council meeting of the university. College has also installed CCTV cameras in lecture halls and examination hall for monitoring education and examination activities. However, the information related to education is

communicated to different offices of the VNMKV, Parbhani as well as outside the university through e-mail.

PG program has been accessed by DBT through web based dynamic portal for **Review of Mechanisms & Protocols of Teaching (PROMPT). S**emester wise online feedback from M.Sc. students has been collected on multiple parameters including quality of teaching (practical and theory subject) taught by respective faculty members in college, laboratory facilities for hands on training, course curriculum, examination pattern, institutional facilities, seminar/presentation, dissertation, disbursement of studentship etc.

Students are asked to give feedback on theoretical and laboratory courses especially they asked to give course-wise rating on courses taught in respect of course coverage, depth and relevance of the course content, courses learning value (in terms of knowledge, concept and analytical abilities and broadening perspectives), interest in the topic taught. Also students have asked to give rates for each faculty regarding their overall teaching, examination question paper discussed and doubts cleared by the faculty. They are asked to rate the course organization, delivery and assessment mechanism for specific teacher on effective teaching, integration of practical examples during lecture, encouragement for out-of-box thinking during classroom discussion, allocation of assignment, seminar, etc during the lecture.

Feedback is taken from student on institutional facilities such as; classroom equipped with audio-visual aid, sufficient text book availability in the library, accessibility of computer and internet facility, availability of basic amenities such as drinking water, power back up, hostel amenities, existence of complaint redressal mechanism and regularity in student fellowships etc.

Feedback on academic activities comprised, organization of lectures and seminars, organization of industry visit/field trips for students, guidance/support to the student for applying to the higher studies, fellowships, training programmes, and jobs, participation in seminars workshops etc. Overall feedback score is measured in 10-point scale as an Excellent (9 & 10), very good (7 & 8), good (5 & 6), satisfactory (3 & 4) and Poor (1 & 2).

This kind of feedback systems leads to in-depth assessment of our teaching programme as well as comparative assessment at national level. Which identify the strengths and gaps in our program and DBT review committee give their suggestion and directives in annual meeting for quality improvement. These suggestions are discussed by the Associate Dean and Principal with faculty members for its effective implementation. The online feedback mechanism resulted into

improving the teaching skill of teachers, good interaction with students through advisor counseling system and improvement in the basic infrastructure facilities of the college.

Further, this college has established an **Internal Quality Assurance Cell (IQAC)** as a quality sustenance measure. Since quality enhancement is a continuous process, the IQAC has become a part of the institution's system and work towards realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institution. For this, during recent period, it is channelizing all efforts and measures of the college towards promoting its holistic academic excellence. The constitution of the committee is furnished in the following Table 29.

- **Table 29: Composition of Internal Quality Assessment Committee (IQAC)**

1	**Chairman**	Associate Dean and Principal
2	**Member**	Education Incharge (UG)
3	**Member**	Examination Incharge (UG)
4	**Member**	Gymkhana/ Sports Incharge
5	**Member**	Hostel Warden (Boys)
6	**Member Secretary**	Education Incharge (PG)

6.5.1.3. CC/ Board of Studies

Board of Studies was constituted for the Faculty of Agricultural Biotechnology w.e.f. 2010 for strengthening of Education, Research and Extension activities in field of Molecular Biology and Biotechnology. The Board of Studies meeting is conducted once in a year to review and formulate action plane for Education, Research and Extension activities and also approves Outline of Research Work of PG students. The composition of Board of Studies for Faculty of Agricultural Biotechnology and proceedings of Board of Studies held during last five years are furnished in the following Tables 30 and 31.

Table 30: Composition of Board of Studies for Faculty of Agril. Biotechnology

1	**Chairman**	Associate Dean and Principal
2	**Secretary**	PG Education Incharge
3	**Invitee Member**	Progressive Farmer
4	**Invitee Members**	Experts from Scientific Community
5	**Members**	All Faculty-academic members

Table 31: Proceedings of Board of Studies held during last five years

S.N.	Date of conduct of meetings	Major Recommendations
1	13.08.2018	• Suggestion on BOS meeting at the start of second semester. • Suggested the names of Dr. N.B. Gokhale, Professor DBSKKV, Dapoli and Dr. S. Anandan, Sr. Scientist, Directorate of Garlic and Onion Research, Rajgurunagar as invited members. • Suggestions and finalization of CPW and Outline of PG Research Work. • Suggestion to organize training programme for teaching staff members of affiliated college. • Approval to the list of external examiner for thesis evaluation.
2	13.10.2020	• Farmer Suggestions and finalization of Outline of PG Research Works. Decision on restructuring of Curricula, syllabi and Departments for PG programme as per V Deans' Committee. • Decision on qualification of S.R.A for Biotechnology faculty. • Suggestion for slight changes in implementation of READY Programme of VII and VIII semester during COVID 19 situation.
3	10.05.2021	• Suggestions and finalization of Outline of PG Research Work • In present Covid 19 situation B.Tech. (Biotechnology) students allowed for review writing on new topic for READY- 482 • Suggestion to change nomenclature of Undergraduate degree programme from B.Sc. (Agricultural Biotechnology) to B.Tech. (Biotechnology) and Post graduate degree programme from M.Sc. (Agril. Biotechnology) to M. Tech. (Biotechnology).

		• It is unanimously decided to conduct on line examination by preparing multiple choice questions (MCQ) and setting 40 MCQ for 1 credit; 80 MCQ for 2 credits and 120 MCQ for 3 credits.
4	08.09.2021	• Suggestions and finalization of Outline of PG Research Work • Suggested the names of Dr. Jagdish Rane, Scientist, ICAR-National Institute of Abiotic Stress Management, Dr. Ashok Jaybhaye, Scientist, MAHYCO, Jalna and Dr. S.S. Dangat, Scientist, Bayer, Deulgaon Raja, District: Buldhana are to be added as invitee members of Board of Studies. • Approval to the list of external examiners for thesis evaluation. • Suggested to organize Breeder's meet of V.N.M.K.V., Parbhani for planning need-based research on various crops of the University mandate.
5	28.09.2022	• Decision to implement the ICAR-BSMA Approved syllabus for M.Sc (Agril. Biotechnology) discipline. Decision to change the nomenclature of M.Sc (Agril. Biotechnology) degree as M.Sc (Molecular Biology and Biotechnology), as per ICAR-BSMA approved syllabus. Eligibility to the M.Sc. (Agril. Biotechnology) was unanimously decided. • ORW and Synopsis of M.Sc (Agril. Biotechnology) students were presented, discussed and approved with some suggestions. • Suggestion to organize Breeder's meet of V.N.M.K.V., Parbhani for planning need based research on various crops of the University mandate.Suggestion to invite Head/Incharges of Biotechnology discipline of State Agricultural Universities (SAU) for Board of Studies Meeting.

6.5.1.4. Anti Ragging Cell

As per the directives and recommendations of the Hon. Supreme Court of India and University Grants Commission, **Anti-Ragging Committee** had been constituted to tackle with menace of ragging and curbing of the same in the institute. The committee is responsible for overall monitoring and prevention of any disastrous incident pertinent to ragging amongst the college students. This committee enquires the matter judiciously and recommends constitutional punishment to the guilty students in case of ragging incidents. The Anti-Ragging Committee

members seat twice a year (before and after I semester registration) and instruct students about different ragging issues and their behaviors with new comers. Till date from inception of college no such issue is raised in the college. The details of Anti-Ragging Committees during last five years are as given in following Table 32.

Table 32: Details of Anti-Ragging Committees

SN.	Name of the Staff	Designation	Mobile No.
2018-19			
1.	Dr. A. A. Bharose	Chairman, Associate Professor	**9422176266**
2.	Dr. Sarika Bhalerao	Member, Associate Professor	**9922515404**
3.	Shri. Bhatlondhe	Member, Police Inspector	**02382-246211**
4.	Mr. Deshmukh A.	Senior student (Boys)	**7972538056**
5.	Ms. Afshan Tarannun	Senior student (Girls)	**7447255881**
6.	Dr. B.N. Aglave	Secretary, Associate Professor	**9422756606**
2019-20			
1.	Dr. A.A. Bharose	Chairman, Associate Professor	**9422176266**
2.	Dr. Sarika Bhalerao	Member, Associate Professor	**9922515404**
3.	Shri. Bhatlondhe	Member, Police Inspector	**02382-246211**
4.	Mr. S.S. Renge	Senior student (Boys)	**9130923415**
5.	Ms. M.G. Dongare	Senior student (Girls)	**7875270446**
6.	Dr. B.N. Aglave	Secretary, Associate Professor	**9422756606**
2020-21			
1.	Dr. A.A. Bharose	Chairman, Associate Professor	**9422176266**
2.	Dr. B.N. Aglave	Member, Associate Professor	**9422756606**
3.	Dr. Vidya R. Hinge	Member, Assistant Professor	**7588611028**
4.	Shri. Anwar Khan	Member, Police Inspector	**9923910707**
5.	Mr. A.S. Jawale	Senior student (Boys)	**9359208859**
6.	Ms. S.A. Waghamber	Senior student (Girls)	**9607499571**
7.	Dr. Y.S. Bhagat	Secretary, Assistant Professor	**9900591961**
2021-22			
1.	Dr. A.A. Bharose	Chairman, Associate Professor	**9422176266**
2.	Dr. B.N. Aglave	Member, Associate Professor	**9422756606**

3.	Dr. Vidya R. Hinge	Member, Assistant Professor	**7588611028**
4.	Shri. S.M. Bavkar	Member, Police Inspector	**7350652345**
5.	Mr. S.A. Gormali	Senior student (Boys)	**9145243008**
6.	Ms. V.A. Kachare	Senior student (Girls)	**9172192535**
7.	Dr. Y.S. Bhagat	Secretary, Assistant Professor	**9900591961**
2022-23			
1.	Dr. A.A. Bharose	Chairman, Associate Professor	**9422176266**
2.	Dr. B.N. Aglave	Member, Associate Professor	**9422756606**
3.	Dr. Vidya R. Hinge	Member, Assistant Professor	**7588611028**
4.	Shri. S.M. Bavkar	Member, Police Inspector	**7350652345**
5.	Mr. S.M. Honshette	Senior student (Boys)	**9421571972**
6.	Ms. P.K. Jadhav	Senior student (Girls)	**9168621120**
7.	Dr. Y.S. Bhagat	Secretary, Assistant Professor	**9900591961**

Note: At this campus no ragging incidence is reported.

Table 33: Proceedings of Anti-ragging committee held during last five years

S.N.	Date of conduct of meetings	Major Recommendations
1	06.06.2018	• The committee stressed the need to increase awareness amongst the students on how the rules have been amended to prevent instances of ragging in college, hostels, canteens, playground etc. • The committee emphasized that in order to create awareness and continuous sensitization for the students, it is essential to put up banners/posters/notices in conspicuous places in the workplace defining ragging, and also about the composition and contact information of the members of the committee. • Preventions of anti-ragging through orientation, awareness and sensitization sessions in college campus and hostels.
2	01.06.2019	• Set out effective measures to avoid, to eliminate and if necessary to impose punishment for any ragging in the college. • Ensured awareness and orientation on the issues.
3	31.07.2020	• Online meeting was conducted towards creating awareness regarding prevention of ragging at collegee and hostels. • The speaker has addressed the various issues related to ragging and given detail guidelines for the redresses the same at college and hostels.

4	06.04.2021	• Oriented college students on ragging related activities. • Formulate programmes for the spread of awareness of the policy among students. • A structured mechanism to monitor ragging related issues and mete out the most stringent punishment to the wrong-doers. • It has made mandatory at the time of admission and Registration for a first semester, student has to fill undertaking related to anti-ragging,
5	28.11.2022	• Oriented students on ragging related issues in orientation programme organized by college at the beginning of academic session for the new students. • Guided about Anti-ragging Act, Guidelines, applicable rules, relevant laws and an understanding of ragging related issues in college and hostels. • The committee should make surprise visits to campus, hostels to monitor and look after the welfare of students. • Discussed details of both informal and formal ways available to the students to address/ complaint about ragging incidences. • It has made mandatory at the time of admission and Registration for a first semester, student has to fill undertaking related to anti-ragging, • Committee emphasized that in order to have fare free environment, new comers are informed about the types of actions to be taken against students for indulging and abetting in Ragging. They are also informed about most of the college area like academic block, hostels and mess are under constant camera surveillance.

The vigilance squad is perpetually vigilant for curbing any kind of dreadful and untoward incident of ragging among the college students (Table 34). The squad undertakes frequent and sudden visits to the hostels (Boys and Girls), 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.

Table 34: Details of Vigilance Committee (for last 5 years)

SN.	Name of the Staff	Designation	Mobile No.
1.	Dr. B.N. Aglave	Chairman, Associate Professor	**9422756606**
2.	Dr. A.A. Bharose	Member, Associate Professor	**9422176266**
3.	Dr. Sarika Bhalerao	Member, Associate Professor	**9922515404**

4.	Dr. R.L. Chavan	Member, Assistant Professor	**7588611027**
5.	Dr. Y.S. Bhagat	Member, Assistant Professor	**9900591961**
6.	Dr. Vidya R. Hinge	Secretary, Assistant Professor	**7588611028**

At this campus, no such untoward incidences are reported.

6.5.1.5. Biological Waste Disposal Facility

The biological waste generated through research as well as UG and PG experiments executed at this college is treated by thermal (Steam sterilization), chemical disinfection and by incineration. The deep burial pits for scientific disposal of the biological waste are constructed by college. Researchers are asked to follow strict rules in disposal of any hazardous wastes generated during the experiments. College has constituted biological waste disposal committee which is responsible to keep the records and monitoring the disposal activities (Table 35).

Table 35: Details of Biological Waste Disposal Committee

Sr. No.	Name of the Member	Post held	Designation
1.	Dr. M.S. Dudhare	Associate Professor	**Chairman**
2.	Dr. Sarika Bhalerao	Associate Professor	**Member**
3.	Dr. R.L. Chavan	Assistant Professor	**Member**
4.	Dr. B.N. Aglave	Associate Professor	**Member**
5.	Dr. R.N. Dhawale	Assistant Professor	**Member Secretary**

The committee is taking orientation of students and faculty members and instructed to follow the guidelines and use of biological waste disposal facility of the college (Table 36). The research work cleared by the Institute Biosafety committee (IBSC) of VNMKV is being conducted strictly in the confined college facility. However, biological waste generated through such laboratory experiments at this college is properly collected and discarded at disposal facility by a trained skill worker. The college has constituted biological waste disposal management committee for regular monitoring and implementation of the biological waste disposal facility of the college.

Table 36: Details of instructions for disposal of biological wastes

Biological waste type		Examples	Disposal instructions
Hazardous	**Solid waste**	**Type I:** Paper towels, gauze, wipes, absorbents, utilized plants or any parts/ tissues, seeds, soil/soil substitute (perlite, vermiculite, peat mass, etc.), Animal carcasses, tissues, organs and any body parts suspected to be or potentially infected, **Type II:** All used gloves, disposable Petri dishes, culture vials, plastic wares etc. **Type III:** Microbiological waste, pathological waste, waste products of recombinant DNA technology and genetic manipulation. Transformation etc.	• Keep container and lid clean at all times. • Maintain access to the container - do not store items on lid. • Lid must be in place when waste is not being added to container. • No liquid should be discarded along with solid waste. • To transport the container outside facility for decontamination, ensure that the bag is sealed and the lid is tightly closed. A trolley for transport is preferred. **Disposal of Type I, Type II and Type III material:** • All solid bio hazardous waste must be autoclaved. • The bag should be 3/4th fill maximum. Do not overfill. • Prior to autoclaving, crisscross the bag's biohazard symbol and/or markings with heat sensitive autoclave tape. • Ensure the autoclave is set for the appropriate time -selection of time and pressure should ensure proper decontamination. • Store the bag in a place that could be collected to dispose by cleaning personnel. • After autoclaving Type I and Type III material destroyed by incineration, Type II material are disposed by deep burial pits.
	Liquid waste	**Type I:** Any media, liquids coming from Petri dishes, culture vials, lab equipment, **Type II:** The liquid waste coming from DNA, RNA, protein isolation, bacterial culture (not related to rDNA and Genetic transformation experiment) **Type III:** Any liquid	• Liquid waste must be separated from solid waste. • **Type I**: Liquid waste must be decontaminated on site with an appropriate disinfectant/ bleach with appropriate period of exposure. • Flush the disinfected material down the sink, allowing the cold water to run for a period of time (at least 5 minutes). • Do not flush non-aqueous solutions, such as agarose gels or broths, down the drain

		waste/suspension culture generated during growth of microbes and transformation experiment, waste from recombinant Nucleic Acids (rDNA) experiments in all forms (natural and synthetic e.g., DNA, RNA etc.).	as they will clog the pipes. • **Type II:** Liquid waste generated from normal DNA, RNA and protein isolation experiment should be autoclaved and disposed. • **Type III:** Liquid waste generated from rDNA work, transformation experiments and higher containment laboratory experiment should be autoclaved and burned at specific site.
Non-hazardous	**Solid waste**	**Type IV:** Biological waste (other than animal carcasses or body parts) that is not infectious or otherwise hazardous to humans, animals, plants or the environment, Sharps (All needles, syringes, scalpels, razor blades, pipette tips, Pasteur pipettes, glass ware, capillary tubes, slides and cover slips, contaminated broken glassware etc.	• Biological waste (other than animal carcasses or body parts) that is not infectious or otherwise hazardous to humans, animals, plants or the environment discarded as regular municipal waste (solid) or sewage (liquid). • Animal carcasses and body parts are incinerated. • Plastic wares/ glass wares are buried and not incinerated.
	Liquid waste	**Type V:** Concentrated and dilute acids and alkali's, Harmless soluble inorganic salts (including all drying agents such as $CaCl_2$, $MgSO_4$, Na_2SO_4, P_2O_5), Alcohols containing salts (e.g. from destroying sodium), Hypochlorite solutions from destroying cyanids, phosphines, etc., Fine (TLC grade) silica and alumina	• Drains are washed down with excess water.

- **Note:** Following colour marked and labeled containers are used for proper collection and disposal of biological waste material generated during laboratory experiments at this college;

Type I material: Collected in white bag and white colored container.
Type II material: Collected in blue bag and blue colored container.
Type III material: Collected in red bag and red colored container.
Type IV and V material (non hazardous): Collected in ordinary bag and ordinary containers.

6.5.1.6. Institutional Ethics Committee for Experiment on Animals

Yes, the Institutional Animal Ethics Committee for experiments on animals is operational at this college. However, the college doesn't have any animal house facility to experiment on animals. Therefore, the college organizes the visit to various other laboratories which are experimenting on animals for the relevant practicals and demonstrations. The detail of Institutional Animal Ethics Committee (IAEC) is as given in following Table 37.

Table 37: Composition of Institutional Ethics Committee for Experiment on Animals

Sr. No.	Name of the Member	Post held	Designation
1.	Dr. R.N. Dhawale	Assistant Professor	Chairman
2.	Dr. Sarika Bhalerao	Associate Professor	Member
3.	Dr. A.A. Bharose	Associate Professor	Member
4.	Dr. R.L. Chavhan	Assistant Professor	Member Secretary

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

As per the directives and recommendations of the Hon. Supreme Court and UGC, following **"Women Sexual Harassment Committee"** has been constituted to tackle with the menace of Prevention, Prohibition and Redressal of Sexual Harassment of Women Employees and Students and curbing of the same in the institute (Table 38).

Table 38: Details of Women Sexual Harassment Committee

S.N.	Name	Designation	Mobile No.
2018-19			
1	Dr. Sarika Bhalerao	Chairman, Professor (CAS), CoAB, Latur	9922515404
2	Dr. Sunita Magar	Secretary, Assistant Professor, CoA, Latur	9404957355
3	Dr. Smita U. Khodke	Invitee Member	7588082864

4	Ms. Pratiksha Khune	Member, PG Student, VDCOAB, Latur	7757048095
2019-20			
1	Dr. Sarika Bhalerao	Chairman, Professor (CAS), VDCOAB, Latur	9922515404
2	Dr. Vidya Hinge	Secretary, Assistant Professor, VDCOAB, Latur	7588611028
3	Ms Surkeha Ambatwad	Member, Jr. Cleark VDCOAB, Latur	7588150620
4	Ms. Archana Gite	Member, PG Student, VDCOAB, Latur	9665916035
2020-21			
1	Dr. Sarika Bhalerao	Chairman, Professor (CAS), VDCOAB, Latur	9922515404
2	Dr. Vidya Hinge	Secretary, Assistant Professor, VDCOAB, Latur	9404957355
3	Ms Surkeha Ambatwad	Member, Jr. Clerk VDCOAB, Latur	7588082864
4	Ms. Kalyani More	Member, PG Student, VDCOAB, Latur	9495102513
2021-22			
1	Dr. Sarika Bhalerao	Chairman, Professor (CAS), VDCOAB, Latur	9922515404
2	Dr. Vidya Hinge	Secretary, Assistant Professor, VDCOAB, Latur	7588611028
3	Ms Surkeha Ambatwad	Member, Jr. Cleark VDCOAB, Latur	7588150620
4	Ms. Vaibhavi Kachare	Member, PG Student, VDCOAB, Latur	9518798410
2022-23			
1	Dr. Sarika Bhalerao	Chairman, Professor (CAS), VDCOAB, Latur	9922515404
2	Dr. Vidya Hinge	Secretary, Assistant Professor, VDCOAB, Latur	7588611028
3	Ms Surkeha Ambatwad	Member, Jr. Cleark VDCOAB, Latur	7588150620
4	Ms. Jadhav Pratiksha	Member, PG Student, VDCOAB, Latur	9168621120

The committee is responsible for overall monitoring and prevention of any disastrous incident pertinent to Women Sexual Harassment in the institute. The committee will inquire the matter judiciously and will recommend constitutional punishment to the guilty personnel in case of Women Sexual Harassment incidents. The proceedings of Women Sexual Harassment Committee held during last five years are furnished in following Table 39.

Table 39: Proceedings of Women Sexual Harassment Committee held during last five years

S.N.	Date of conduct of meetings	Major Recommendations
1	10.07.2018	• Discussed details of both informal and formal ways available to girls students to address/complain about sexual harassment. • Guided about sound grasp of the Act, Vishaka Guidelines, applicable service rules, relevant laws and an understanding of sexual harassment and related issues in College.
2	15.07.2019	• Oriented girls students on sexual harassment. • Formulate programmes for the spread of awareness of the policy among the girl's students.
3	07.07.2020	• Online meeting was conducted for creating awareness regarding prevention of sexual harassment of women at workplace. • The speaker has addressed the various issues related to problems faced by woman employee at workplace and given detail guidelines for the redresses the same at workplace.
4	14.07.2021	• Provided a detailed framework to redress girls issues. • Set out effective measures to avoid, to eliminate and if necessary to impose punishment for any sexual harassment in the college. • Ensured awareness and orientation on the issues.
5	04.07.2022	• Made Champion on prevention of sexual harassment through orientation, awareness and sensitization sessions in college campus and girls hostel. • Discussed about prohibition, prevention and redressal of sexual harassment in college campus. • The Committee stressed the need to increase awareness amongst the employees on how the rules have been amended to prevent instances of harassment of women employees • Committee emphasized that in order to create awareness and continuous sensitization for the students, it is essential to put up banners/posters/notices in conspicuous places in the workplace defining sexual harassment, and also about the composition and contact information of the members of the Complaints Committee

NOTE: During last five years, there is no complaint of Sexual Harassment of Women in this college.

6.5.2. Faculty

6.5.2.1. Faculty Strength

The details of faculty position for Under-graduate and Post-graduate degree programmes (both in-sanctioned and in-position) are mentioned in the following Table 40.

Table 40: Faculty position (both in-sanctioned and in-position) for the UG and PG programmes

Sr. No.	Post	Sanctioned positions	Filled Post	Vacant position	Faculty recommended by ICAR (V Deans' Committee Recommendation)
Faculty position for the Under-Graduate Programme					
1.	**Associate Dean and Principal**	**01**	**01**	**--**	**01**
2.	**Professor Biotechnology**	**01**	**--**	**01**	**04**
3.	**Associate Professor**				
	Plant Biotechnology	02	02	--	
	Biochemistry and Molecular Biology	01	01	--	
	Food Biotechnology	01	01	--	
	Crop Science	01	01	--	
	Total	**05**	**05**	**--**	**08**
4.	**Assistant Professor**				
	Plant Biotechnology	01	01	--	
	Biochemistry and Molecular Biotechnology	01	01	--	
	Post Harvest & Food Biotechnology	01	01	--	
	Animal Biotechnology	01	01	--	
	Crop Science	01	--	01	
	Total	**05**	**04**	**01**	**22**
Faculty position for the Post-Graduate Programme					
5.	**Professor**	01	00	01	
6.	**Associate Professor (Microbiology/ Biotechnology)**	02	01	01	
7.	**Assistant Professor (Biotechnology)**	02	01	01	

NOTE: Faculties assigned the responsibilities for multiple programmes considering their work-load (i.e. UG and PG). The faculty shared from campus i.e. College of Agriculture, Latur; Oilseed Research Station, Latur; also course teachers appointed on credit-basis (contractual) are being exploited to execute UG and PG degree programme at this college.

6.5.2.2. Faculty Profile (Division-wise)

The details of division-wise UG Faculty Profile of academic staff member are as given in the following Table 41.

Table 41: Division-wise UG faculty profile of academic staff member

S.N	Name of the Faculty	Post/ Designation	Establishment	Qualification
1.	**Division of Plant Biotechnology**			
	Core Faculty of Plant Biotechnology			
	H.B. Patil	Associate Professor	VDCoAB, Latur	M.Sc.(Biochem.)
	Dr. A.A. Bharose	Associate Professor	VDCoAB, Latur	Ph.D. (Biotech.)
	Dr. S.R. Bhalerao	Associate Professor	VDCoAB, Latur	Ph.D. (Biotech.), NET
	Dr. R.L. Chavhan	Assistant Professor	VDCoAB, Latur	Ph.D. (Biotech.)
	Dr. Y.S. Bhagat	Assistant Professor	VDCoAB, Latur	Ph.D. (Biotech.), NET
	Associated Faculty of Plant Biotechnology			
	Dr. B.N. Aglave	Associate Professor	VDCoAB, Latur	M.Sc.,Ph.D.(Agronomy)
	Associated Faculty shared from College of Agriculture and Oilseed Research Station			
	Dr. M.V. Dhuppe	Associate Professor	ORS, Latur	Ph.D. (GPB)
	K.D. Dahiphale	Assistant Professor	ORS, Latur	M.Sc.NET (Entomology)
	S.V. Waghmare	Assistant Professor	CoA, Latur	M.Sc.,NET (Pathology)
2.	**Division of Microbial and Environmental Biotechnology**			
	Core Faculty of Biotechnology			
	Dr. V.D. Surve	Associate Professor	VDCoAB, Latur	Ph.D. (Food Sci. Tech.)
	K.M. Sharma	Assistant Professor	VDCoAB, Latur	M.Sc.(Agril. Biotech.)
	Associated Faculty shared from Division of Plant Biotechnology			
	Dr. M.S. Dudhare	Associate Professor	VDCoAB, Latur	Ph.D.NET
3.	**Division of Animal Biotechnology**			
	Core Faculty of Biotechnology			
	Dr. R.N. Dhawale	Assistant Professor	VDCoAB, Latur	M.Sc.(Agri). Ph.D.
	Associated Faculty shared from College of Agriculture, Latur			
	Dr. A.T. Shinde	Associate Professor	CoA, Latur	Ph.D., NET (Dairy Sci.)
4.	**Bioinformatics Section**			
	Associated Faculty from PG Programme of VDCOAB, Latur			
	Dr. V.R. Hinge	Assistant Professor	VDCOAB, Latur	Ph.D., NET
	Associated Faculty on Contractual Basis			
	Dr. D.J. Wankhade	SRA	VDCOAB, Latur	Ph.D.
	Associated Faculty shared from College of Agriculture, Latur			
	M.M. Bhogonkar	Assistant Professor	CoA, Latur	M.Sc.(Math)., B.Ed.
5.	**Teaching staff recruited on contractual basis for General/ Supporting Courses**			
	R.S. Swami	ICT-231,	Contractual	M.Tech. (Computer

		ICT-352		Sci.)
	S.P. More	ECON-231, EDBM-241	Contractual	B.Sc.(Agri.),M.B.A.
	M.B. Kumbhar	PHY-241, BT/ECE-241	Contractual	M.Sc.(Physics), B.Ed.SET
	Dr. J.H. Gaikwad	STAT-121, STAT-362	Contractual	Ph.D. (Statistics)

The profile of the faculties for PG teaching programme of this college is as given in the following Table 42.

Table 42: PG faculty profile of academic staff members

Sr. No.	Name of the Faculty	Designation	Establishment	Qualification
Core Faculty of Biotechnology				
1.	Dr. M.S. Dudhare	Associate Professor	VDCoAB, Latur	Ph.D., NET
2.	Dr. V.R. Hinge	Assistant Professor	VDCoAB, Latur	Ph.D., NET
Teaching Faculty shared from College of Agriculture, Latur				
1.	Dr. V.B. Kamble	Professor	CoA, Latur	M.Sc.(Agri.)Ph.D.(Extension)
2.	Dr. P.N. Karanjikar	Professor	CoA, Latur	M.Sc.(Agri.)Ph.D.(Agronomy)
3.	Dr. D.D. Suradkar	Assistant Professor	CoA, Latur	M.Sc.(Agri.)Ph.D.(Extension)
Teaching Staff recruited on credit-basis				
1.	Dr. V.G. Tamberwade	Course Teacher: PGS-501	CoA, Latur (Retd.)	Ph.D. (Library Sciences)
Note: The faculties of **B.Tech. (Biotechnology)** programme, faculties shared from College of Agriculture, Latur and Contractual faculties are being exploited to execute PG programme at this college.				

6.5.2.3. Credentials of the Faculty

B.Tech. (Biotechnology) / M.Sc. (Agril. Biotechnology) degree programmes

The university has employed competent faculty in each subject to accomplish the mission and goal of the college. The professional credential of the faculty of B.Tech.(Biotechnology) and M.Sc. (Agrilcultural Biotechnology) degree programmes is detailed in the following **Table 43**:

Table 43: Faculty Credentials of B.Tech.(Biotech.)/ M.Sc. (Agri. Biotech.) degree programmes

Sr. No.	Particulars	Name of the Faculty with Credentials											
		J.E. Jahagirdar	H.B. Patil	V.D. Surve	B.N. Aglave	A.A. Bharose	S.R. Bhalerao	M.S. Dudhare	R.L. Chavan	K.M. Sharma	R.N. Dhawle	V.R. Hinge	Y.S. Bhagat
1	**Designation**	Asso. Prof.	Asso. Prof.	Asso. Prof.	Asso. Prof	Asso. Prof	Asso. Prof.	Asso. Prof.	Asst. Prof.	Asst. Prof.	Asst. Prof.	Asst. Prof.	Asst. Prof.
2	**Highest Qualification**	**Ph.D.**	**M.Sc.**	**Ph.D.**	**Ph.D.**	**Ph.D.**	**Ph.D.**	**Ph.D.**	**Ph.D.**	**M.Sc**	**Ph.D.**	**Ph.D.**	**Ph.D.**
3	**Work experience in the field**	**30 Yrs**	**30 Yrs**	**30 Yrs.**	**30 Yrs**	**21 Yrs**	**19 Yrs.**	**17 Yrs.**	**14 Yrs**	**14 Yrs**	**14 Yrs.**	**14 Yrs**	**09 Yrs**
4	**Professional licensure & Certifications**	Life Member of 03 societies	- Life Member of Indian Legume Aried societies, Jodhpur	Life Member of 02 societies	Life Member Ind. J. Agronomy J. Oilseed research	NET	CSIR-NET , MS-CIT, Life Member Biotech Society, ISCA	ASRB-NET, Expert member IBSC, PDKV	Life Member of IPS Society, Life member Asian PGPR	-	Nil	Life member of Asian PGPR society, INSAA member	ASRB-NET, MS-CIT, Life Member of 03 societies
5	**No. of Honours & Awards**	**05**	**10**	**-**	**01**	**05**	**4**	**02**	**15**	**-**	**04**	**07**	**07**
6	**No. of Trainings attended**	**05**	**05**	**-**	**06**	**07**	**4**	**10**	**05**	**-**	**08**	**06**	**05**
7	**No. of Conferences attended**	**20**	**15**	**-**	**10**	**10**	**39**	**12**	**27**	**-**	**50**	**12**	**09**
8	**No. of Students guided**	**11**	**20**	**16**	**25**	**20**	**40**	**22**	**23**	**14**	**20**	**05**	**05**
9	**No. of Research papers published**	**45**	**28**	**25**	**20**	**34**	**28**	**70**	**40**	**16**	**53**	**19**	**20**
10	**No. of Abstract published**	**27**	**30**	**40**	**25**	**40**	**41**	**10**	**52**	**10**	**18**	**21**	**09**
11	**No. of Books published**	**01**	**01**	**01**	**02**	**01**	**-**	**02**	**01**	**01**	**04**	**01**	**03**
12	**No. of Chapter's published**	**02**	**-**	**-**	**--**	**-**	**4**	**01**	**05**	**02**	**02**	**03**	**05**
13	**No. of Popular articles published**	**15**	**02**	**35**	**30**	**64**	**3**	**11**	**45**	**05**	**18**	**18**	**03**
14	**No. of ICT tools developed**	**-**	**-**	**-**	**--**	**-**	**6**	**02**	**-**	**-**	**20**	**06**	**05**
15	**No. of Projects handled**	**04**	**06**	**01**	**02**	**-**	**`1**	**03**	**07**	**-**	**01**	**02**	**06**
16	**No. of Varieties/ Recommendations**	**15**	**04**	**14**	**13**	**-**	**-**	**-**	**05**	**-**	**-**	**05**	**-**
17	**Special attainments**	Attended Int. Training	-		Best Pulses Demonst.	Organised Int. Webinar		Attended Int. Training	Patent: 1 (XCM)		13003 gene seq. in NCBI	-	-

6.5.2.4 Technical and Supporting Staff

The details of posts of technical and supporting staff for field experimentation work/ laboratory work/ official work along with list of existing teaching and non-teaching staff at this college are shown in the following Tables 44 and 45.

Table 44: Details of Technical and Supporting Staff at College

Sr. No.	Name of Division	Name of the Posts	Sanctioned post	Filled	Vacant
Administrative staff:					
1	Administrative section	Assistant Registrar	01	-	01
		Senior Clerk	01	01	-
		Steno	01	-	01
		Jr. Clerk	02	01	01
		Cashier	01	01	-
		Peon	02	01	01
		Driver	02	-	02
Division wise Technical and Supporting staff					
2.	Plant Biotechnology	SRA	02	01	01
		Store keeper	01	01	-
		Agril. Assistant	02	02	-
		Laboratory Assistant	02	-	02
		Laboratory Assistant		01	
		Peon	02	01	01
		Labour		01	
		Junior Research Fellow		01	
		Project Associate		02	
		Technical Helper		02	
3.	Microbial and Environmental Biotechnology	SRA	02	-	02
		Clerk	01	-	01
		Laboratory Assistant	01	01	-
		Lab boy	01	01	-
		Peon	02	01	01
4.	Animal Biotechnology	Animal Attendant	01	-	01

Table 45: List of Teaching and Non-Teaching Staff available at College

Sr. No	Name of the Faculty	Designation	Qualification
Teaching Faculty of VDCOAB, Latur:			
1.	Dr. J.E. Jahagirdar	Associate Dean and Principal	M.Sc.(Agri.), Ph.D.
2.	H.B. Patil	Associate Professor	M.Sc.(Biochemistry)
3.	Dr. B.N. Aglave	Associate Professor	M.Sc.(Agri.),Ph.D.
4.	Dr. V.D. Surve	Associate Professor	Ph.D. (Food Tech.)
5.	Dr. A.A. Bharose	Associate Professor	M.Sc.(Agri.),Ph.D.
6.	Dr. S.R. Bhalerao	Associate Professor	M.Sc, Ph.D.
7.	Dr. M.S. Dudhare	Associate Professor	M.Sc.(Agri.),Ph.D.
8.	Dr. R.L. Chavhan	Assistant Professor	M.Sc.(Agri.),Ph.D.
9.	Dr. R.N. Dhawale	Assistant Professor	M.Sc.(Agri.),Ph.D.
10.	K.M. Sharma	Assistant Professor	M.Sc. (Agril. Biotech)
11.	Dr. V.R. Hinge	Assistant Professor	M.Sc.(Agri.),Ph.D.
12.	Dr. Y.S. Bhagat	Assistant Professor	M.Sc.(Agri.),Ph.D.
13.	Dr. S.D. Kadam	Assistant Librarian	Ph.D. (Library Science)
Teaching Faculty shared from College of Agriculture, Latur & Oilseed Research Station, Latur			
1.	Dr. M.V. Dhuppe	Associate Professor	M.Sc.(Agri.),Ph.D. (GPB)
2.	Dr. A.T. Shinde	Associate Professor	Ph.D. (Dairy Science)
3.	M.M. Bhogaonkar	Assistant Professor	M.Sc.(Math), B.Ed.
4.	Dr. S.S. Shrungare	Assistant Professor	M.P.Ed. (Ph.D.)
5.	K.D. Dahiphale	Assistant Professor	M.Sc.(Agri.),NET (Ento.)
6.	S.V. Waghmare	Assistant Professor	M.Sc.(Agri.),NET (Patho.)
Contractual Faculty			
1.	Dr. D.J. Wankhade	Senior Research Assistant	M.Sc.(Agri.), Ph.D.
Teaching staff recruited on credit basis			
1.	R.S. Swami	ICT-231, ICT-352	M.Tech. (Computer Sci.)
2.	S.P. More	ECON-231, EDBM-241	B.Sc.(Agri.),M.B.A.
3.	Dr. M.B. Kumbhar	PHY-241, BT/ECE-241	M.Sc.(Physics), B.Ed.SET
4.	Dr. J.H. Gaikwad	STAT-121, STAT-362	Ph.D. (Statistics)
Technical/Supporting Staff			
1.	Dr. S.K. Ugile	Senior Research Assistant	Ph.D. (Soil Science)
2.	L.R. Kamble	Assistant Section Officer	B.Com.
3.	V.P. Durugkar	Agril. Assistant	Diploma in Agriculture
4.	M.D. Phad	Agril. Assistant	Diploma in Agriculture
5.	Dr. M.D. Bagade	Sr. Clerk	Ph.D. (Library Science)
6.	S.B. Ambatwad	Sr. Clerk	Master of Journalism
7.	T.B. Gamphle	Sr. Clerk	B.A.
8.	A.P. Garad	Jr. Clerk	B.Sc. (Computer Science)
9.	K.G. Tak	Library Attendant	10^{th} Std.
10.	Mrs. S. Sorekar	Laboratory Attendant	B.Com.
11.	M.A. Sakhare	Laboratory Attendant	10^{th} Std.
12.	B.P. Khating	Peon	12^{th} Std.
13.	R.S. Jondhale	Peon	4^{th} Std.
14.	S.P. Devnale	Peon	7^{th} Std.
15.	Shri R.U. Jadhav	Labour	10^{th} Std.
Technical/Supporting Staff on contract basis			
1.	A.S. Deshmukh	Junior Research Fellow	M.Sc. (Ag. Biotech.)
2.	S.G. Jaybhaye	Project Associate	M.Sc.(Ag. Biotech.), NET

3.	S.B. Jature	Project Associate	M.Sc. (Ag. Biotech.)
4.	V.D. Ghadge	Technical Helper	B.Tech. (Biotechnology)
5.	R.S. Choudhary	Technical Helper	B.Tech. (Biotechnology)

6.5.3. Learning Resources

6.5.3.1. College Library (digital)

The information regarding location, present staff position and availability of Wi-Fi, books, reading material, periodicals, research journals, computer cell and other allied facilities has furnished in the following Tables 46- 50.

- **Library Space with Holdings**

Table 46: Available Floors and Space for the Library

S. No.	Location	Staff Position	Level College/ University	No. of Floors/Rooms	Size (Sq. M)
1	Accommodated separately within college building	Library In-charge (1) Lib.Assistant (1)	College	**3 rooms:-**	
				1. Room for books	250 Sq.m
				2. Reading rooms for boys	400 Sq.m.
				3. Reading rooms for girls	250 Sq.m.

Table 47: Holdings of Library

Sr. No.	Particulars	Quantity
1	Books	2513
2	Journals	02
3	Back volumes	Nil
4	Reference books	200
5	News papers	04
6	CD	Thesis CDs 150
7	Thesis	150
8	Indian standards code (BIS code)	Nil
9	Video tape	Nil
0	Transparencies	Nil
11	Charts	Nil
12	Periodicals	Nil
13	Xerox machine	01

Table 48: Details of the Books in the Library

Subject	Books
Genetics , Plant Breeding & Cytogenetic	202
Biotechnology & Plant Tissue Culture	452
Cell & Molecular Biology & Genetic Engineering	271
Biochemistry & Enzymology	167
Plant Physiology, Botany	79
Plant Pathology	634
Microbiology & Virology	178
Bioinfo. Genomics & Proteomics	149
Food Biotechnology	103
General Agriculture	420
Mathematics, Statistics, Biophysics, Electronics	73
Immunology	55
Animal Biotechnology	64
Biodiversity, Environmental & Biotechnology	61
IPR, Nanobiotechnology	56
Other Books and Competitive	183
Total	**2513**

Visit of DBT Team to Library Facility

Computer Cell in the Library

- **Charges for Internet usage, Printing and Downloading**

Particulars	Print copy (*Rs.*)	Copy on floppy, CD & DVD (Rs.)
Internet/Intranet/CD ROM browsing	Nil	Nil
Internet Information	Nil	Nil
Abstracts	Nil	Nil
Index	Nil	Nil

➢ **Resources / facilities available at Library:**

Table 49: Availability of Computers and Access to Internet

CD ROM	Data base	Krishi Prabha	Reading room	Computers in Comp. Cell	Xerox Machine	Internet/ Wi-Fi	Book bank
02	Nil	Nil	01	02	01	24 x 7 8 Mbps (1:4) dedicated Leased line with Wi-Fi	Yes (19 racks)

It is required of any student to have a good command of the language for communication purposes, with clarity and accuracy being vital for effective and efficient communication. For this the multi-user friendly software i.e. Duolingo© (Online Language System) installed in android phones and being used for language teaching or in self learning mode in the college computer cell. Students are utilizing this facility for improvement in their day-to-day communication in the English language.

Table 50: Audio-Visual and Multimedia equipments

College	Facility					
	Projectors	CDs/DVDs	TV	Visualizer	Video Tapes	Audio cassettes
V D C O A B, Latur	01	Thesis CDs	01	Nil	Nil	Nil

➢ **Library timings and Usages:**

a. Library Working Hours : 9:00 hrs to 13:30 hrs and 14:00 hrs to 16:45 hrs. (Book issue)

b. Reading hall : 9:00 hrs to 6:30 for Girls and 9.00 to 22.00 hrs for boys

c. Computer Cell : 10:00 hrs to 13:00 hrs and 14:00 hrs to 16:00 hrs.

6.5.3.2. Laboratories, Instructional farm, Workshops, Dairy Plant, Veterinary Clinic, Hatchery, Ponds etc.

➢ **Laboratories**

B.Tech. (Biotechnology) running in this college has three divisions viz., Plant Biotechnology, Microbial and Environmental Biotechnology, Animal Biotechnology and one section i.e. Bioinformatics with well equipped laboratories (Table 9).

The post graduates' students are allotted the research topics for their completion of the M.Sc. Agri. Biotech degree under the chairmanship of respective faculties. The post graduate

research is carried out by the students as per the approval of Board of Studies of the respective divisions, which are based on specific problems. Two post graduate laboratories are equipped with most of the sophisticated instruments. **(*Please also refer*, 6.4.4 of UG and PG SSR).**

UG Students working in Plant Tissue Culture Lab

PG Laboratory Facility

- **Instructional Farm**

The college has 20 acres land for research work, crop cafeteria, conduct of practicals, Hands-on-Training, seed production programme etc. On the farm one greenhouse, two polyhouses and five shadenets are available for students' research work as well as hardening of tissue cultured seedlings. The important equipments available are tractor drawn plough, disc harrow, blade harrow, cultivator, seed drill, etc. For irrigation two bore wells and one well is available. Drip irrigation and sprinkler irrigation facilities are available in this college. Vermicompost unit as well as composting unit of farm waste material is also constructed on the instructional farm (Table 51).

Table 51: Facilities available on the farm for Conduct of Practicals and Hands-on-Training

S.N.	Facilities available	Quantity	S.N.	Facilities available	Quantity
1.	Greenhouse	01	8.	Disc harrow	01
2.	Polyhouse	01	9.	Seed drill	02
3.	Shadenet house	05	10.	Cultivator	01
4.	Vermicompost Unit	01	11.	Harrow	01
5.	Compost Unit (Farm waste)	01	12.	Panji	01
6.	Tractor with trolley	01	13.	Sprinkler Sets	02
7.	Plough	01			

Greenhouse and Shadenet Facilities on College Farm

Seed Production Programme

Instructional Farm

6.5.3.3. Student READY/ In-Plant Training / Internship / Experiential Learning Programmes:

The READY (Rural and Entrepreneurship Awareness Development Yojana) programme was conceptualized to reorient graduates of Biotechnology for ensuring and assuring employability and development of entrepreneurs in the field of Agriculture and Biotechnology. In the revised course curricula by V Deans' Committee, the Student READY programme was proposed in VII and VIII semester of B.Tech. (Biotechnology) degree curriculum. The students of VII semester are undergoing In-House Skill Development Modules (READY-PB-471) with 20 credits whereas students of VIII semester undergo READY-483 i.e. Entrepreneurial Development in Biotechnology (on-campus/off Campus) with 10 credits and READY-482 i.e. Project Formulation, Execution and Presentation with 10 credits. The students of VIII semester are allowed to work on independent project in the area of Plant Biotechnology, Plant Biochemistry and Molecular Biology, Food Biotechnology and Animal Biotechnology. The details of trainee-students under READY during the last five years are mentioned in the following Table 52. The READY students also get an opportunity to work on live projects i.e. DNA fingerprinting services on commercial basis under DNA Fingerprinting Project of the college and Commercial Plant Tissue Culture Unit operated at University Headquarter. **The Department of Agriculture (Govt. of Maharashtra)** recognized and granted this college as a Centre for **'DNA Fingerprinting Laboratory'**; which is eventually expanding the research infrastructure for the UG Teachers and also UG Students through their active involvement and exploring their research horizons. The revenue to the tune of approx. **Rs. 30.00 Lakhs** was received by the college from different public and private sectors.

Table 52 : Year-wise number of Trainee-Students under READY programme

Academic Year	No. of Trainee-Students under READY	Remarks
2018-19	38	Comprehensive Report by each Trainee-Student submitted based on individual research topic on biotechnological approaches and industrial study tour.
2019-20	32	
2020-21	27	
2021-22	40	
2022-23	36	

The Coordinator of the READY programme proposes the names of Members of Committee and submits to the respective Associate Dean and Principal of the college/ Dean of University for the approval. The constitution of the committee is as given below.

In this respect, the **Monitoring and Internal Evaluation Committee** is formulated at college-level as shown in the following Table 53. For final evaluation of said READY programme, in the final year University Dean formulates the **External Evaluation Committees.**

Table 53: Monitoring and Internal Evaluation Committee (i.e. at College level):

1.	Associate Dean & Principal/ Principal of the concerned College	:	**Chairman**
2.	Respective Head of Division of the concerned College	:	**Member**
3.	Project Guide of the concerned College	:	**Member**
4.	Module Incharge	:	**Member**
5.	READY Coordinator of the concerned College	:	**Member Secretary**

Industrial Study Tour during the READY Session

6.5.3.4. Curricula Delivery through IT

All classrooms have LCD projector facility which is used by faculty members to use IT enabled learning tools such as PPT and educational videos, social networking sites, blended learning platforms and conferencing platforms for effective teaching-learning process. Teachers communicate with students through various platforms viz., YouTube, Emails, Whatsapp, Zoom, Google Meet and Google Classroom. The details of Smart Classrooms at this college are given in the following Table 54.

Table 54: Details of Smart Classrooms

Smart class rooms	Interactive Board for teaching theory and practicals	Number of class rooms being upgraded as smart class rooms
02	02	02

A view of well-furnished Smart Classroom

6.5.4. Student Development

6.5.4.1. Student Intake and Attrition

The details of student intake and attrition across different degree programmes running at this college during last five years is detailed in the following Table 55.

Table 55: Year-wise Student Intake and Attrition of UG and PG programmes

Name of Degree programme	Actual student admitted in last five years					No. of Students with Attrition (%)				
	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
B.Tech. (Biotech.)	39	36	39	41	43	5 (12.8%)	1 (2.7%)	2 (5.12%)	4 (9.75%)	0 (0%)
M.Sc.(Agri. Biotech.)	17	15	09	09	10	0	0	0	2 (22%)	2 (10%)

6.5.4.2. Average Number of Students in Theory and Practical Classes

The details of average number of students in Theory and Practical Classes are mentioned in the following Table 56.

Table 56: Average No. of Students in Theory and Practical Classes

Name of the Degree Programme	Batch of Students in theory class	Batch of students in practical class
B.Tech. (Biotech.)	37	18
M.Sc. (Agri. Biotech.)	18	18

6.5.4.3. Admission Process

The details of mode of admission for B.Tech. (Biotechnology), M.Sc. (Agril. Biotechnology) being conducted at this college is described in the following Tables 57-58.

Table 57: Mode of Admission: B.Tech. (Biotechnology)		
1	System of Education	**Semester**
2	Semester duration	**110 working days including examination days**
3	Duration of the program (1) Minimum (2) Maximum	 **8 Semesters (4 Academic Years)** **16 Semesters (8 Academic Years)**
4	Credit Load	**184**
5	Eligibility for admission	**XII Std. (Science) passed in 10+2 pattern from Maharashtra State Board of Higher Secondary Education or an equivalent Examination, with PCM or PCMB or PCB and English.** **Those who have not offered Biology, Mathematics shall have to complete deficiency courses as prescribed by respective University.**
6	Mode of Admission*	**State level Online Admission procedure through MCAER, Pune with wide prior publicity in electronic & print media. CET examination conducted by MH-CET (70% CET + 30% XIIth) (30% State level quota + 70% Regional quota)/ Common Entrance Examination i.e. JEE/NEET organized by Competent Authority**
7	Fees payment mechanism	**Through 'State Bank of India Collect' Online mechanism**
8	Registration Procedure	**In Person through respective Advisory-Counseling system on commencement of each semester.**
9	Academic scheduling	**Prior publication/ display of Academic Calendar by Controller of Examination for SAUs (MAUEB), Pune with detailed scheduling of Registration, Examination & Semester break/ Holidays dates.**

Table 58: Mode of Admission: M.Sc. (Agril. Biotechnology)			
1	System of Education	**Semester**	
2	Semester duration	**110 working days including examination days**	
3	Duration of the program (1) Minimum (2) Maximum	 **4 Semesters (2 Academic Years)** **8 Semesters (4 Academic Years)**	
4	Credit Load	**55 (35 course credit + 20 research credit)**	
5	Eligibility for admission	**1. Bachelor's degree in Agriculture/ Horticulture/ Biotechnology/ Food Technology/Sericulture/Forestry/ Fishery Science subjects (4 years).** **2. CET examination conducted by State Agricultural Universities-CET (70% CET + 30% Bachelor's degree).** **3. CET examination i.e. GAT-B conducted by RCB, New Delhi**	
6	Mode of Admission	**Admission based on MCAER Entrance-cum-Academic performance: 08 students**	**Entrance i.e. GAT-B conducted by RCB, New Delhi for DBT Sponsored PG : 30 students**
7	Fees payment mechanism	**Through 'State Bank of India Collect' Online mechanism**	
8	Registration Procedure	**In Person through respective Advisory-Counseling system on commencement of each semester.**	
9	Academic scheduling	**Prior publication/ display of Academic Calendar by Controller of Examination for SAUs (MAUEB), Pune with detailed scheduling of Registration, Examination & Semester break/ Holidays dates.**	

6.5.4.4. Conduct of Practical and In Plant Training/ Experiential Learning

a. Conduct of Practicals

The majority of the courses in these divisions are conducted in college laboratories by taking care of good laboratory practices. All practical are related to the course content and prescribed in syllabus. The practicals related to protected cultivation of various field and horticultural crops; and acclimatization of tissue culture samplings are done using shadenet house/ polyhouse/ greenhouse facilities in the campus. The practicals on cropping system, intercultural operations, crop protection, crop production etc. are conducted on college farm. The course practicals are conducted in batches i.e. 25 students in one batch; so as to get student more acquainted with actual real time exposure. The students enrolled in P.G. do their practicals individually.

b. Student READY/In Plant Training /Internship /Experiential Learning

The READY (Rural and Entrepreneurship Awareness Development Yojana) programme was conceptualized to reorient graduates of Biotechnology for ensuring and assuring employability and development of entrepreneurs in the field of Agriculture and Biotechnology. The students of VII semester are undergoing In-House Skill Development Modules (READY-PB-471) whereas students of VIII semester undergo READY-483 i.e. Entrepreneurial Development in Biotechnology (on-campus/off Campus) and READY-482 i.e. Project Formulation, Execution and Presentation. The students of VIII semester are allowed to work on independent project without repetition of earlier work, in the area of Plant Biotechnology, Plant Biochemistry and Molecular Biology, Food Biotechnology and Animal Biotechnology.

Project Guide (Incharge) and Module Incharge is appointed by the respective Associate Dean & Principal of the college to each student, who will help the College Committee to choose the topic from above areas, prepare scheduling of the project work and look after his/ her routine project work as a Guide. In case of outside institutes, **'Module Incharge'** is appointed from that institute/ organization along with Project Guide, who will guide the trainee student.

The READY-Coordinator should propose the names of Members of Committee and submit to the Associate Dean and Principal of the college/ Dean of the University for the approval. For smooth and efficient execution of said programme, **Monitoring and Internal Evaluation** and **External Evaluation committee** are formulated at Colleges and University levels, respectively. Evaluation committee is to be formulated at the University level.

The Associate Dean & Principal of constituent Biotechnology College/ Incharge of Biotechnology Center of the respective University may propose this committee and submit to the Dean, Faculty of Agriculture of the respective University for the approval. The Mid-Term assessment will be done by external examiner in mid of semester. At end of semester students are evaluated for 1000 marks by the Evaluation Committee(s) approved by the Dean, Faculty of Agriculture, VNMKV, Parbhani.

6.5.4.5. Examination and Evaluation Process

The details of mode of examination and evaluation along with grading patterns for B.Tech. (Biotechnology), M.Sc. (Agril. Biotechnology) at this college are as given in the following Tables 59 and 60.

Table 59: Mode of Examination and Evaluation

B.Tech.(Biotechnology) and M.Sc.(Agril. Biotechnology)

Examination		Weightage (%)	Marks as per Credits (Exemplary)	
			2 (1+1)	3 (2+1)
Theory	Mid-Term Theory Examination	20	10	20
	Semester End Theory Examination	80	40	80
Practical	General Performance/ Assignment	20	10	10
	Semester End Practical Examination	80	40	40

M.Sc.(Agril. Biotechnology)	
(1) Examination: Theory and Practical	**Internal**
(2) Comprehensive qualifying examination (after completion of 75% of course work) (i) Written Examination for Major and Minor courses, separately. (ii) *Viva-Voce*	**Internal**
(3) Research and Thesis * * (i) Evaluation (ii) *Viva-Voce* **To be graded as Satisfactory (S) or Unsatisfactory (US)	**External** **External Examiner and Internal-Advisory Committee**

Table 60: Grading Pattern

B.Tech.(Biotechnology) and M.Sc.(Agril. Biotechnology)

Degree Programme	Class			
	Pass	Second	First	First with Distinction
B.Tech. (Biotech.)	**5.0 – 5.99**	**6.0 – 6.99**	**7.0 – 7.99**	**8.0 & above**
M.Sc. (Agri. Biotech.)	**6.5 – 6.99**	**7.0 – 7.49**	**7.5 – 8.49**	**8.5 & above**

6.5.4.6. NCC/NSS/RVC Units

- **Existence and Functioning of the NSS Unit:**

Vasantrao Naik Marathwada Agricultural University, Parbhani has alloted the NSS unit at Vilasrao Deshmukh College of Agricultural Biotechnology, Latur in the year 2006. The NSS unit of college consists of 40 volunteers, through these volunteers various regular activities are conducted throughout the year and special camping programme is conducted at rural areas of this district every year. The NSS volunteers are maintaining the reports of all activities routinely in the form of daily dairy. The progress reports of all activities are submitted to the Student Welfare Officer, VNMKV, Parbhani in the form of yearly report.

Activities under NSS Programme

- **Contributions of Regular Activities and Special Camping Programme for students:**

Concerted efforts have to be made for a number of years for reconstruction activities in rural areas, urban slums and college campus areas for improving the living conditions of economically and socially weaker sections of the community. NSS unit is working with the various departments of State Government for implementing various activities for development of rural livelihood.

6.5.4.7. Language Laboratory

English language and communication skill multi-user friendly software installed in computer and android phones which is used for language teaching or in self learning mode in the college computer cell. Students are utilizing this facility for improvement in their day-to-day communication in English language.

6.5.4.8. Cultural Center

Yes, the college has the cultural center. The cultural centre is provided with musical instruments, audio-visual aids etc. Various cultural activities are organized regularly by the Gymkhana Vice President and Students' Council of this college. The students are encouraged and trained by the experts for various extra-curricular activities like singing, act and play, music, drama, debating, playing of instrument, arts and crafts etc. for the overall development of the students. The different cultural activities are organized by the college to explore the artistic abilities of students.

Rangoli Competition

Essay Writing Competition

Azadi ka Amrut Mahostaw

Shiv Jayanti Celebration

Celebration of Ganesh Jayanti

Republic Day Celebration

Cultural Activities of Students

6.5.4.9. Personality Development

The college has organized the personality development workshops as well as innovative lectures for the students and staff members in order to develop their social and professional skills. This is helping in elevating student's self competence and confidence in facing the interviews and getting the employment.

Personality Development Workshop

Yoga Day

Agriculture Education Day

National Science Day

Various expert lectures were organized on the occasions of Shiv Jayanti, Dr. Ambedkar Jayanti, Biotechnology Day, Youth Skill Day, Agriculture Day, Science Day etc. at this campus/college to create the social awareness among the students. The list of extension events and personality development workshops and innovative lectures during last five years is furnished as under Tables 61 and 62.

Table 61: Extension events organized during last five years

Beneficiary	No. of events organized				
	2018-19	2019-20	2020-21	2021-22	2022-23
UG/ PG Students /Staff	1	1	-	1	1
Farmers	-	3	3	-	2

Table 62: Details of personality development workshops/ trainings/ seminars/ symposia organized

Sr. No.	Topic	Counselor/ Resource/ Invitee person	Duration	Beneficiary	Achievements
2018-19					
1.	**Women's Day**	Faculty of College	8th March, 2018	UG/ PG students & Staff members	Awareness on women contribution to society
2.	**Yoga Day**	Faculty of College	21st June, 2018	UP/ PG students & Staff members	Awareness & knowledge acquired on Yoga practices and health development
3.	DBT Sponsored training on "**Tools & Techniques in Bioinformatics with Industrial Approach**"	R.L. Chavhan A.M. Dethe M.M. Bhogaonkar	4-5th July 2018.	35	Hands-on- Training upgraded Skills and Knowledge regarding Bioinformatics techniques within PG students
4.	**World Youth Skill Day**	Faculty of College	15th July , 2018	UG/ PG students & Staff members (110 Participants)	Awareness developed on skill development on Vermicompost, Greenhouse hardening of tissue culture plantlets and protected cultivation of vegetables.

5.	**Motivational lecture on "Industrial opportunities for Students**	Dr. Promod Halde, Marrico India Limited	25th September, 2018	80	Awareness regarding Industry requirement and opportunities have been generated among UG and PG Students
6.	**Biotechnology Day**	Faculty of College	14th November, 2018	UG/ PG students & Staff members	Acquired knowledge on Opportunities and scope for Agricultural Biotechnology graduates in the industry
7.	**Agriculture Education Day**	Faculty of College	3rd December, 2018	UG/ PG students & Staff members	Importance of Agriculture Education and Career opportunities in the field of Agriculture
8.	Lecture on "**Molecular detection towards management of Biotic stress inducible among plant Ecosystem**"	Dr. Ashok Chawade Scientist	4th January, 2019	35	Gained knowledge to the UG and PG students on Molecular detection system in Plants
2019-20					
1.	**Yoga Day**	Faculty of College	21st June, 2019	UP/ PG students & Staff members	Awareness & knowledge acquired on Yoga practices and health development
2.	**World Youth Skill Day**	Faculty of College	15th July , 2019	UG/ PG students & Staff members (110 Participants)	Awareness developed on skill development on Vermicompost, Greenhouse hardening of tissue culture plantlets and protected cultivation of vegetables.
3.	**Biotechnology Day**	Faculty of College	14th November, 2019	UG/ PG students & Staff members	Acquired knowledge on Opportunities and scope for Agricultural Biotechnology graduates in the industry
4.	**Agriculture Education Day**	Faculty of College	3rd December, 2019	UG/ PG students & Staff members	Importance of Agriculture Education and Career opportunities in the field of Agriculture
5.	DBT sponsored training programme on **Exploring the**	Prof. H.B. Patil Dr. A.M. Dethe, Dr. R.L. Chavhan	2nd to 8th March, 2020	40	Hands-on- Training upgraded Skills and Knowledge regarding Molecular biology

	Tools and Techniques in Molecular Biology and Bioinformatics for Crop Improvement				techniques and Bioinformatics tools within PG students
6.	Lecture on **"Carrier opportunities and challenges and opportunity to study at abroad"**	Dr. U. S. Kadam, Scientist, Max Planck Institute, Germany	7th March, 2020	56	UG & PG Students were exposed with various carrier opportunities at Abroad
7.	**Women's Day**	Faculty of College	8th March, 2020	UG/ PG students & Staff members	Awareness on women contribution to society
2020-21					
1.	**Yoga Day**	Faculty of College	21st June, 2020	UP/ PG students & Staff members	Awareness & knowledge acquired on Yoga practices and health development
2.	**World Youth Skill Day**	Faculty of College	15th July , 202-	UG/ PG students & Staff members (110 Participants)	Awareness developed on skill development on Vermicompost, Greenhouse hardening of tissue culture plantlets and protected cultivation of vegetables.
3.	**National Webinar on Biotechnology for Crop Improvement**	Dr. Y.S. Bhagat Co-convenor	29th to 30th July, 2020	UG/PG/ Ph.D. students; Academic and Research Staff (2000 participants)	Webinar upgraded knowledge regarding Biotechnological techniques and tools within students and academic/ research staff
4.	**Biotechnology Day**	Faculty of College	14th November, 2020	UG/ PG students & Staff members	Acquired knowledge on Opportunities and scope for Agricultural Biotechnology graduates in the industry
5.	Organized Lecture on **"Counseling and guidance towards preparation of GATE examination for M.Tech and PhD.**	Mr. Vrushab H. Malvi, IIT , Guwahati	October 27, 2020	53	UG & PG Students were acquainted with preparation for GATE examination

	Admission"				
6.	**Agriculture Education Day**	Faculty of College	3rd December, 2020	UG/ PG students & Staff members	Importance of Agriculture Education and Career opportunities in the field of Agriculture
7.	**Women's Day**	Faculty of College	8th March, 2020	UG/ PG students & Staff members	Awareness on women contribution to society
2021-22					
1.	**Yoga Workshop**	Dr. V.R. Hinge and Faculty of College	6th to 21st June, 2021	UP/ PG students & Staff members	Students were benefitted with enhanced flexibility, improved physical and psychological health with YOGA Workshop
2.	**World Youth Skill Day**	Faculty of College	15th July , 2021	UG/ PG students & Staff members (110 Participants)	Awareness developed on skill development on Vermicompost, Greenhouse hardening of tissue culture plantlets and protected cultivation of vegetables.
3.	**Biotechnology Day**	Faculty of College	14th November, 2021	UG/ PG students & Staff members	Acquired knowledge on Opportunities and scope for Agricultural Biotechnology graduates in the industry
4.	Organized Lecture on **"Counseling and guidance towards preparation of GATE examination for M.Tech and PhD. Admission"**	Mr. Vrushab H. Malvi, IIT , Guwahati	October 27, 2021	53	UG & PG Students were acquainted with preparation for GATE examination
5.	**Agriculture Education Day**	B.N. Aglave Y.S. Bhagat and Faculty of College	3rd December, 2021	UG/ PG students & School students	Importance of Agriculture Education and Career opportunities in the field of Agriculture
6.	**Women's Day**	Faculty of College	8th March, 2021	UG/ PG students & Staff members	Awareness on women contribution to society
7.	DBT sponsored training programme on	Prof. H.B. Patil Dr. R.L. Chavhan Dr. V.R. Hinge	22nd-28th March, 2022	40	Training upgraded practical knowledge and Hands-on-Skill

	Integrated use of Biotechnological and Bioinformatics tools in crop Improvement"	Dr. B.N. Aglave			regarding Biotechnological techniques and Bioinformatics tools within UG and PG students
8.	Lecture on **" Development of DNA-based Novel Biosensors for Small Molecule Analysis from Food and Environment**"	Dr. U.S. Kadam**,** Research Professor, Gyeongsang National University, Jinju, Republic of Korea	March 22, 2022	50	UG ,PG students and Faculty members were aware with techniques on DNA-based Novel Biosensors in Food
9.	Industry and academic Interaction with Students and faculty on **" Industry Requirements from Academia and Future Perspectives"**	Dr. B.A. Aglave, Director, Pacific Ag Group, San Luis Obispo, California, USA , and Dr. S.S. Dangat, Scientist Bayer, India	March 23, 2022	35	UG and PG students got tips for getting hired in Industry
10.	Organized Guest Lecture on "**CRISPR-based genome editing technologies and their adoption for microbial and plant research"**	Dr. R.M. Shelke, Research Professor, Gyeongsang National University, Jinju, Republic of Korea	March 26, 2022	38	UG, PG students and Faculty members gained knowledge on CRISPR-based genome editing techniques in plants.
11.	Organized Guest Lecture on "**Scope for Developing Co-expression Network in Plant System"**.	Lecture delivered by Dr. Payel Ghosh**,** Assistant Professor, Bioinformatics Centre, SPPU, Pune	March 26, 2022	35	UG, PG students and Faculty members gained knowledge and scope on Protein-Interaction studies in plants.
2022-23					
1.	Inspiration Talk on **"Opportunities in Life Sciences and Preparation for**	Vishal Bhujbal, Institute for Advances Studies, Pune	19th July, 2022	51	UG, PG students gained knowledge on various carrier opportunities

	CSIR-ICAR-NET/DBT-JRF/GATE/GAT-B/ IIT-B/ICMR"				
2.	Lecture on **"Biotechnological Research Opportunities for UG and PG Students"** dated 20.06.2022	Dr. Ashok P. Giri , Senior Principal Scientist and Chair, Biochemical Sciences Division, CSIR-National Chemical Laboratory, Pune	20th June, 2022	107	UG and PG students were gained exposure on research undertaken at CSIR-National Institutes of India.
3.	**Yoga Day**	Faculty of College	21st June, 2022	UP/ PG students & Staff members	Awareness & knowledge acquired on Yoga practices and health development
4.	**World Youth Skill Day**	Faculty of College	15th July , 2022	UG/ PG students & Staff members (110 Participants)	Awareness developed on skill development on Vermicompost, Greenhouse hardening of tissue culture plantlets and protected cultivation of vegetables.
5.	**Talk on Carrer Opportunities in Life Sciences and Preparation for Competitive Examinations**	Shri. Vishal Bhujbal Institute of Advanced Studies, Pune	19th July , 2022	UG/ PG students (51 participants)	UG and PG Students were exposed with various carrier opportunities
6.	**Biotechnology Day**	Faculty of College	14th November, 2022	UG/ PG students & Staff members	Acquired knowledge on Opportunities and scope for Agricultural Biotechnology graduates in the industry
7.	Workshop **on "Soft Skill and Personality development"** conducted in collaboration with College of Agriculture, Latur	Dr. B. Sivaprasad Trainer and Motivational Speaker, Pune	5th-6th January, 2023	100	Soft skill and personality development skills were upgraded within UG and PG students
8.	**National Science Day**	Faculty of College	28th February, 2023	50	Created awareness on scientific interventions among students

6.5.5. Physical Facilities

6.5.5.1. Hostels

Vilasrao Deshmukh College of Agricultural Biotechnology has well furnished one Boys and one Girls hostel with 40 and 20 rooms, respectively with the occupancy capacity of 80 boys and 60 girl students. Besides students living rooms, hostel mess, water cooler with RO, guest room, security facility, emergency medical facility, recreation hall and well-equipped gymnasium are available in both the hostel. The hostel cleaning facility is available on daily basis. The hostel has mess facility to provide healthy and nutritive food for hostlers (Table 63).

Table 63: Amenities at Boys and Girls Hostels (UG and PG)

Total Rooms	Students per Room	Mess facility	Drinking water	Indoor games	Cleaning of hostel premises	Transport facility	Emergency medical facility
Boys: 40	2 per Room	Yes	Yes (RO water)	Yes	Daily	No	Yes
Girls: 20	3 per Room	Yes	Yes (RO water)	Yes	Daily	No	Yes

Boys' and Girls' Hostels located in the College Campus

6.5.5.2. Examination Hall

The college has examination hall of ample space allocated (38 x 40 ft each) with the housing capacity of 60 students. During the examination period, two classrooms are used as examination hall, as there are no classes being conducted during the examination time at these halls.

6.5.5.3. Sports and Recreation Facilities

The college has play ground in the campus. The ground has been developed for the outdoor games viz., Cricket, Kho-Kho, Kabbadi, Volleyball etc. In addition to these common facilities viz., indoor games like, Badminton court, Carom, Chess and Special Gymnasium are available at Latur campus.






Students Participation in Sports Events

6.5.5.4. Auditorium

Auditorium facility with an audience capacity of around 1000 is available in the Agriculture college campus for this faculty. This auditorium hall is utilized for various purposes like guest lectures, award ceremonies and annual function, conferences, seminars, training sessions, meetings, board, or other private meetings and social events.

6.5.5.5. Exhibition Hall/ Museum

The biotechnology museum is established at college to inoculate the scientific temper and to generate awareness through scientific intervention among students. The museum has digital display panels/ boards. This panels/ boards are utilized to display videos, graphic representations on biotechnology research scenario at national and global level, status of GM crops, genesis of biotechnology, techniques in biotechnology and applications of biotechnology in different fields like agriculture and food, industry, and in pharmacy and medicine. It also displays instruments used in biotechnology applications and research.

6.5.6. Research Facilities

6.5.6.1. Postgraduate Laboratories and Equipments:

The PG laboratories and equipment housed in individual laboratory in the Colleges along with any other research unit (Table 64).

Table 64: Details of Postgraduate Laboratories and Equipments

Sr. No.	Name of Equipment	Quantity
	A. PG Laboratory No. 1	
1	-20^{o}C freezer (Bluestar)	1
2	-80^{o}C freezer (Elcold))	1
3	Refrigerator 4^{o}C (Healforce)	1
4	Refrigerator 4^{o}C (Samsung)	1
5	Laminar Flow (Microfilt)	2
6	Microscope (Labomed)	7
7	Centrifuge (Eppendorf)	1
8	Gel Documentation Unit	1
9	Weighing balance (Sartorius)	1
10	Weighing balance (Fivestar)	1
11	Orbital Shaker incubator (Eltek)	1
12	Horizontal Electrophoresis Unit	3
13	Microwave Oven (Samsung)	1
14	BOD incubator	1
15	Water bath	1
16	Shaker –incubator	2

B. PG Laboratory No. 2		
1	Refrigerator 4°C (Samsung)	1
2	Refrigerator 4°C (LG)	1
3	Laminar Flow (Microfilt)	1
4	Centrifuge (Eppendorf)	1
5	Hot air oven (Unix96)	1
6	Weighing balance (Sartorius)	1
7	UV transilluminator (Hoefor)	1
8	Magnetic stirrer (Remi)	2
9	Incubator (Labto)	1
10	Mixmate (Eppendorf)	1
11	Microwave Oven (Samsung)	1
12	GCMS	1
13	BOD incubator	1



Ample Research Infrastructure and State-of-Art Equipments for the UG, PG Students & Faculty

6.5.6.2. Research Contingency:

The details of Research Contingency Grants received and utilized by this college on annual-basis for the conduct of research projects are given hereunder (Table 65).

Table 65: Research Contingency for Conduct of Research

Sr.No	Funding Agency/ Head	Grants/ Approx Budget (Rs. Lakh)				
		2018-19	2019-20	2020-21	2021-22	2022-23
1.	Department of Biotechnology, Govt. of India New Delhi (DBT)	--	27.72	21.30	0.75	1.27
2.	Indian Council of Agricultural Research, New Delhi	06.00	14.00	2.00	2.00	0.91
3.	Maharashtra State Government	09.26	10.30	0.30	0.16	0.50
4.	University Revenue Receipt	25.00	28.00	22.00	29.00	20.00
5.	BIF-BTBI DBT Project	--	--	2.64	--	--
6.	DNA Fingerprinting Project	04.00	03.50	2.00	4.00	2.00

6.5.7. Outcome/ Output

6.5.7.1. Student Performance in National Examinations:

The details regarding the performance of students in National ICAR-JRF and DBT-JNU Examinations are presented in the following Tables 66 and 67.

Table 66: Students performance in National ICAR- JRF Examination

Sr. No.	Year	No. of JRF holders	Registration No.	Name of ICAR-JRF holders
1.	**2018 to 2023**	Nil	-	-

Table 67: Students performance in National DBT-GAT-B Examination

Sr. No.	Academic year	No. of DBT-GAT-B fellowship holders	Registration No.	Name of JNU Fellowship holders
1.	**2018-19**	**02**	2014/BT/06/BL	**Bansod Akash A.**
			2014/BT/26/BL	**Mote Gopika K.**
2.	**2019-20**	**03**	2015/BT/22/BL	**Kokate Balaji V.**
			2015/BT/12/BL	**Hagare Ganesh B.**
			2015/BT/16/BL	**Jiju P.S.**
3.	**2020-21**	**01**	2016/BT/40/BL	**Warkad Sonal T.**
4.	**2021-22**	**02**	2017BTLT012	**Gound Pallavi P**
			2017BTLT018	**Kharat Pradip M**
5.	**2022-23**	**04**	2018BTLT032	**Rathod Ganesh K.**
			2018BTLT003	**Ansari G.N**
			2018BTLT027	**Kurva Suresh**
			2018BTLT029	**Mapari Pallavi D.**

6.5.7.2. Students Placement Profile

The Student counseling and Placement Cell was formulated at this college which is working under the guidance of Chairman of placement cell and Associate Dean and Principal of Vilasrao Deshmukh College of Agricultural Biotechnology, Latur (Table 68). The details of placement of UG and PG students of this college during last five years are presented in the following Tables 69 and 70. Moreover the as per the directives from Minister for Tourism, skills, Employment and women and child development, Govt. of India vide Lr. No. RB/Gen-2022/CR-284/Edn-4/1223, dtd.,06.10.2022, we have established Entrepreneurship Cell at this college which is working and associated with Student counseling & placement cell activities.

Table 68: Student Counseling and Placement Cell Committee & Entrepreneurship Development Committee

SN.	Name of the Staff	Position held	Designation
1.	Dr. R.L. Chavan	Chairman	Assistant Professor
2.	Dr. B.N. Aglave	Member	Associate Professor
3.	Dr. A.A. Bharose	Member	Associate Professor
4.	Dr. Vidya R. Hinge	Member	Assistant Professor
5.	Dr. Y.S. Bhagat	Member Secretary	Assistant Professor

Table 69: AREA-WISE PLACEMENT OF UG STUDENTS (2018-23)

Year	Higher Education M.Sc. Agri. Biotech./Biotech./Biochem./Physiology/Other/MS						Placement	
	DBT-JNU	ICAR/ JRF	MCAER	Management	Abroad	M.Sc. Biotech	MNC's/ Industry/ Institute	Bank
2018-19	02	3	3	-	-	6	-	3
2019-20	03	2	3	3	-	-	5	1
2020-21	01	5	6	-	-	-	-	1
2021-22	02	1	9	-	-	2	-	2
2022-23	04	-	4	-	-	-	3	-
Total	12	11	25	03	-	8	08	7

Table 70: AREA-WISE PLACEMENT OF PG STUDENTS (2018-23)

Year	Higher Education PhD		Placements						
	India	Abroad	Bank	MNC/ NGO	RA/ JRF/ PA	Asstt. Professor/ Lecturers	MPSC/ UPSC/ LIC	ARS	Abroad
2018-19	1	-	-	3	4	3	1	-	-
2019-20	1	-	-	-	2	-	-	-	-
2020-21	-	-	-	-	2	1	-	-	-
2021-22	7	-	-	2	2	1	-	-	-
2022-23	3	-	-	-	2	-	-	-	-
Total	12	-	-	5	12	5	1	-	-

6.5.7.3. Awards/ Recognitions/ Certificates

The details of year-wise information on Awards/ Recognitions/ Certificates conferred upon faculty and students during last five years are shown in the following Tables 71-73.

Table 71: Year-wise Information on Awards/Recognitions/Certificates conferred on Faculty

Year	Name of faculty and No. of Awards received year wise data							Total No. of Awards
	HBP	AAB	SRB	RLC	RND	VRH	YSB	
2018-19	01	01	-	02	-	01	02	07
2019-20	-	-	-	-	-	-	-	-
2020-21	02	-	-	04	-	03	02	11
2021-22	04	01	02	04	-	04	01	16
2022-23	-	-	-	-	-	-	-	-

HBP : H. B. Patil; **AAB**: Dr. A. A. Bharose **SRB:** Dr. S. R. Bhalerao
RLC: Dr. R.L. Chavhan **RND:** Dr. R.N. Dhawale **VRH:** Dr. V.R. Hinge
YSB : Dr. Y.S. Bhagat

❖ ***Details of Faculty Awards /recognitions/certificates received during last Five years:***

2018-19

1) 'Incentive Award for Publications' at third position among BIF Colleges centers by DBT-Biotechnology Information System Network (Ministry of Science & Technology, GoI) in the Annual Coordinators Meet held at Tamilnadu (Coordinators: H.B. Patil, Dr. A.M. Dethe & Dr. R.L. Chavhan).
2) Best Oral Paper Award for the paper entitled 'Recent Advances in Food, Herbal and Nano Technology', presented by V.R. Hinge, I.M. Shaikh and R.L. Chavhan in national Conference organized by the Department of Biotechnology, COCSIT, Latur on 12th and 13th January 2018.
3) Best Poster Paper Award for the paper presented by P. Patil and A.M. Dethe in the International seminar on "Recent Advances in Food, herbal and Nano Technology" held at COCSIT, Latur (MS) on 12-13 January, 2018.
4) Appreciation certificate awarded to Dr. Y.S. Bhagat from University of Agricultural Sciences for the development of various bioagents which are commercialized on larger scale and extensively accepted by farmers towards promoting the organic farming during 2018-19.
5) Certificate of appreciation awarded to Dr. Y.S. Bhagat for the excellent contribution in ICAR accreditation process of VNMKV, Parbhani during 2018-19.

6) Dr. A.A. Bharose received State Level Award under "Agriculture Literature" given by "Saaptahik Krushisewak", Jalgaon, Maharashtra.

2019-20: Nil

2020-21

1) Best Poster Paper Award for the paper entitled "Differential gene expression profiling in response to Sterility Mosaic Disease in Pigeonpea (*Cajanus cajan* (L) Millsp.)", presented by R.L. Chavhan, M. Gubyad, V.R. Hinge, A. S. Deshmukh, Y. Petnaekota and H.B. Patil, in the National Symposium *on* "Plant Health Management", Organized by Dept. of Plant Pathology and Entomology, College of Agriculture, Navsari Agricultural University, Navsari during November 02-04, 2020.
2) Best Oral Paper Award" for the paper entitled "The Establishment of an efficient callus induction system for Anther and gynoecium culture of Pigeonpea (*Cajanus cajan* (L.)" Presented by Y.S. Bhagat, M. Ponninselvam, R.L. Chavhan, A.M. Dethe, H.B. Patil and D.K. Patil in the E-Conference on "Advances and Future Outlook in Biotechnology and Crop Improvement for Sustainable Productivity" during 24th to 27th November, 2020.
3) Second Best Oral Paper Award" for the paper entitled "Initiatives on development of resistance against SNV virus through Agrobacterium mediated genetic transformation of coat protein gene in Sunflower" Presented by A. S. Deshmukh, M. Gubyad, V.R. Hinge and R.L. Chavhan in the National Symposium *on* "Plant Health Management", Organized by Dept. of Plant Pathology and Entomology, College of Agriculture, Navsari Agricultural University, Navsari during November 02-04, 2020.
4) Second Best Poster Paper Award" for the paper entitled "A three way molecular marker system based genetic diversity studies in Sunflower (*Helianthus annuus* L.) germplasm in relation to the Downey mildew disease" Presented by P.T. Karande, S.R. Salunkhe, A.M. Dethe, R.L. Chavhan and V.R. Hinge in the National Symposium *on* "Plant Health Management", Organized by Dept. of Plant Pathology and Entomology, College of Agriculture, Navsari Agricultural University, Navsari during November 02-04, 2020.
5) Certificate of recognition is awarded to Dr. Y.S Bhagat for interacting with around 2000 participants globally in the National Webinar on "Biotechnology for Crop Improvement" organized by Rajlaxmi Foundation's College of Biotechnology and MPKV, Rahuri during July, 2020.

2021-22

1) Oral Presentation Award for the paper entitled "Candidate flowering genes expression during the battle of pigeonpea sterility mosaic virus in pigeonpea (*Cajanus cajan* L. Millsp.)", presented by R.L. Chavhan, P. Yeswanth, V.R. Hinge, A.S. Deshmukh, H.B. Patil & P.K. Chakrabarty in the National Symposium *on* "Plant Health Management", Organized by ICAR-IARI, New Delhi during March 25-27, 2021.
2) Oral Presentation Award for the paper entitled "Engineering Resistance against Sunflower Necrosis Virus (SNV) in Sunflower and Tobacco using RNA interference" presented by Chavhan R. L., Hinge V.R., Deshmukh A.S., Dethe A.M. and Patil H.B. in the national Symposium of IPS west Zone on "Achieving sustainability in crop production through alimentation and plant protection" organized on 17 -18th November, 2021 by College of Agriculture, Latur.
3) Poster Presentation Award for the paper entitled "PCR based Detection of Banana Streak Virus (BSV) in Banana (*Musa* Sp.)" Presented by Deshmukh A.S., Chavhan R.L., Hinge V.R., Wankhade D. J. and Patil H.B in the national Symposium of IPS west Zone on "Achieving sustainability in crop production through alimentation and plant protection" organized on 17-18th November, 2021 by College of Agriculture, Latur.
4) Best Oral Paper Presentation Award for the paper entitled 'Morphological, Molecular Characterization pathogenicity of *Neoscytalidium dimidiatum* causing stem canker of dragon fruit in India' authored by Y.S. Bhagat in the Conference IPSCONF2022 held at SKNAU, Jobner-Jaipur, Rajasthan during March, 2022.
5) Poster Presentation Award for the paper entitled "A Two -way DNA marker based Genetic diversity among *Pseudocercospora* species causing Sigatoka disease complex in banana (*Musa* sp.)" Presented by Choudante S. S., Chavhan R.L., Deshmukh A.S., Hinge V.R., Dudhare M.S. and Patil H.B. in the national Symposium of IPS west Zone on "Achieving sustainability in crop production through alimentation and plant protection" organized on 17-18th November, 2021 by College of Agriculture, Latur.
6) Dr. A.A. Bharose received "Excellence in Research Award" from Society for Scientific Development in Agriculture and Technology (SSDAT) in International Conference On "Innovative and Current Advances in Agriculture and Allied Sciences" (ICAAAS-2021) during 19-21th July 2021.
7) Bhalerao S. R., Puneet S. B., Rahul K., Rahul G., received Excelsier Award First Position in (2021). Molecular Characterization of Okra [*Abelmoschus esculentus* (L.) Moench] against Yellow Vein Mosaic Virus (YVMV). National Online Research Project Presentation. Ricerca National Conference 2021 organized by St. Joseph's College for women, alappuzha in collaboration with Society of Biotechnologists India and Kerala Sasthra Sahithya Parishath Alappuzha, Kerala, India during 05-10-2021 to 21-10-2021.

8) Dr. S.R. Bhalerao received 'Best Scientist Award' in International Conference on Advancement in Interdisciplinary research organized by Shia PG College and Science Tech Institute, Lucknow, Manraj Kuwar Singh Educational Society, Lucknow during 2021.

❖ **Year wise Information on awards/recognitions/certificates of Students in last Five years**

Table 72: List of University Gold Medals received by UG student during last five years:

Sr. No.	Academic Year	Reg. No.	Name of the Scholar
1	2018-19	2014/BT/06/BL	Akash Bansod
2	2019-20	2015/BT/02/BL	Aayush Awasthi
3	2020-21	2016/BT/17/BL	Kranti Kamble
4	2021-22	2017/BTLT015	Pratiksha Jadhav

Table 73: List of University Gold Medals received by PG students during last five years

Sr. No.	Academic Year	Reg. No.	Name of Student
1	2018-19	2016/BT/02/ML	Rasika Aher
2	2019-20	2017/BT/02/ML	Mrugendra Gubyad
3	2020-21	2018/BT/03/ML	Archana Gitte
4	2021-22	2019/BT/13/ML	Shubham Salunkhe
5	2022-23	2020/BT/06/ML	Kranti Kamble

Table 74: Other Awards/Recognitions/Certificates/Prizes received by PG students during last 5 years

Sr. No.	Name of student/ Students	Name of Award	Total No. of Awards
Year :		**2018-19**	
1.	Pooja Patil	**Best Poster Paper Award** for the paper presented by P. Patil and A.M. Dethe in the International seminar on "Recent Advances in Food, herbal and Nano Technology" held at COCSIT, Latur (MS) on 12-13 January, 2018.	01
Year :		**2019-20**	Nil
Year :		**2020-21**	
1.	M. Gubyad	**Best Poster Paper Award** for the paper presented by M. Gubyad and R.L. Chavhan in National Symposium on "Plant Health Management", Organized by Dept. of Plant Pathology and Entomology, College of Agriculture, Navsari Agricultural University, Navsari during November 02-04, 2020.	03
2.	A. S. Deshmukh	**Second Best Oral Paper Award** for the paper Presented by A. S. Deshmukh and R.L. Chavhan in the National Symposium *on* "Plant Health Management", Organized by Dept. of Plant Pathology and Entomology, College of Agriculture, Navsari Agricultural University, Navsari during November 02-04, 2020.	
3.	S.R. Salunkhe	**Second Best Poster Paper Award** for the paper Presented by S.R. Salunkhe and A.M. Dethe in the National Symposium *on* "Plant Health Management", Organized by Dept. of Plant Pathology and Entomology, College of Agriculture, Navsari Agricultural University, Navsari during November 02-04, 2020.	
Year :		**2021-22**	
1.	S. B. Puneet	**Excelsier Award** First Position National Conference organized by St. Joseph's College for women, alappuzha in collaboration with Society of Biotechnologists India and Kerala Sasthra Sahithya Parishath Alappuzha, Kerala, India during 5th October to 21st October, 2021.	03
2.	S. S. Choudante	**Best Poster Presentation Award** for the paper presented by Choudante S.S. and R.L. Chavhan in the national Symposium of IPS west Zone on "Achieving sustainability in crop production through alimentation and plant protection" organized on 17-18th November, 2021 by College of Agriculture, Latur.	
3.	A. S. Deshmukh	**Best Poster Presentation Award for the paper**	

		presented by Deshmukh A.S. and Chavhan R.L. in the national Symposium of IPS west Zone on "Achieving sustainability in crop production through alimentation and plant protection" organized on 17-18th November, 2021 by College of Agriculture, Latur.	
4.	R. Bharsakale	**M.J. Narsimhan Academic Award-West Zone** for the paper presented by R. Bharsakle and V.R. Hinge in the national Symposium of IPS west Zone on "Achieving sustainability in crop production through alimentation and plant protection" organized on 17-18th November, 2021 by College of Agriculture, Latur.	
Year :		**2022-23**	**Nil**

6.5.7.4. Employability

The Placement Cell was formulated at this college which is working under the guidance of Chairman of placement cell and Associate Dean and Principal of Vilasrao Deshmukh College of Agricultural Biotechnology, Latur. The placement cell has conducted various activities at this college, which has helped to improve the skills, understanding and personal attributes of students of this college. The activities such as Guest Lectures for guidance of various competitive examinations like Banking services, Management examinations, MPSC, DBT-JNU entrance examination, ICAR-Junior Research Fellow, Examination as well as self entrepreneurship etc. The college has also instilled entrepreneurship as an alternative career in the minds of young students. Some massively successful entrepreneurs rose from this college are listed in Table 75. The placement cell has called various multinational companies for campus interview of the candidates of this college. Beside this, college has conducted campus interviews in the jurisdiction of the University and in collaboration with the central placement cell of VNMKV, Parbhani regarding recruitment in various banking sectors, private seed companies, private chemical and fertilizer companies and other allied agriculture sectors. We have created one Whatsapp group for UG and PG students separately for this college. We are using these groups for sharing information regarding placement, job opportunities, job vacancies, ICAR-NET, DBT-JNU/DBT GAT-B examination information, News paper vacancies, various conferences and related information's among students of this college. Moreover, we have successfully utilized these Whatsapp groups to bring all pass out as well as presently studying B.Tech. as well as M.Sc. Alumini of this college together and interact with each other. Our students are employed in the various government as well as private organizations at higher as well as village level positions.

Table 75: Success Stories/ Entrepreneurship developed in Agricultural Biotechnology

Sr. No.	Particulars		Details of Entrepreneurer
1.	**Name of the student entrepreneur**	:	**Mr. Sandeep P. Kale & Mrs. Sonali Anil Bansode**
	Name of the enterprise	:	Quencher Biotech Private Limited
	Address	:	A/p. Indapur, District- Pune, Maharashtra
	Email ID	:	kalesandeep1830@gmail.com/ sonali.bansode89@gmail.com
	Mobile number	:	7588004680/9766368975
	Year of the start/ Establishment of enterprise	:	2019
	Success story	:	To carry on the business as manufacturers, researchers, developers. Established NABL accreditated Covid Detection laboratory
	Approx. annual turn over	:	10.00 Lakh
	Number of employments	:	05
2.	**Name of the student entrepreneur**	:	**Nitesh B. Choudhari**
	Name of the enterprise	:	Shyam Nursery
	Contact details	:	9403390171
	Address	:	At post Shondarjanaghat, Tq- Warud, Dist-Amravati, Maharashtra, Pin code:- 444907
	Email ID	:	nbc123.901@gmail.com
	Mobile number	:	9403390171
	Success story	:	Commercial Production and selling of true to type Sweet Orange and Citrus Plant Seedlings.
	Approx. annual turn over	:	20.00 Lakh
	Number of employments	:	4
3.	**Name of the student entrepreneur**	:	**Mr. Aditya Mahadev Bandgar & Mr. Vijay Pandit Khupse**
	Name of the enterprise	:	The Spices of Life
	Address	:	A/p. Lalgun, Taluka Khatav, Dist- Satara 415 503, Maharashtra
	Email ID	:	Thespicesoflife100@gmail.com
	Mobile number	:	9765031577/9637582222
	Year of the start /Establishment of enterprise	:	2022
	Approx. annual turn over	:	50.0 Lakh
	Number of employments	:	12

4.	**Name of the student entrepreneur**		**Dr. Mahesh Mahajan**
	Name of the enterprise		Bio Genome India
	Address		Ravi Nagar, Kauth, Nanded -431606
	Email ID		biogenomeindia1@gmail.com
	Mobile number		8700951287
	Year of the start /Establishment of enterprise		2018
	Approx. annual turn over		100.00 Lakhs
	Number of employments		04

6.5.9. Certificate

CERTIFICATE

I, the Dean, ***Dr. Babasaheb M. Thombre*** *hereby certify that the information contained in the section 6.5.1. to 6.5.7.4. are furnished as per records available in the College and degree awarding University.*

Signature of Dean of the College with date & seal