



AMRUTESHWAR ARTS, COMMERCE & SCIENCE COLLEGE, VINZAR

At Post Vinzar, Tal. Velha, Dist. Pune. Pin No. 412213

ID No. PU/PN/AC 121/(1997) AISHE No.: C-41472

NAAC Reaccredited - B

Website : amruteshwar.org

Email : amruteshwar13@gmail.com

Principal
Dr. Sanjeev Late

M.A., M.Phil., GDC&A., Ph.D.

Mob.: 9421057654

Ref. : A.A.C.S.C./ /20

174/2023

Date : / / 20

02/09/2023

Notice

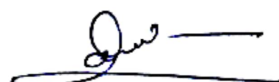
(Internal Quality Assurance Cell)

All teaching staff hereby request to submit their Annual Performance Indicator (API) reports as per Savitribai Phule Pune University, Pune. The API is not only an essential document that helps us assess and recognize your contributions to teaching, research, and other academic activities but also for institutional improvement in the light of NAAC (AQAR) during the last academic year.

The API serves as a valuable tool for evaluating your performance and considering you for career advancement, promotions, and recognition. It is crucial that you complete the API form accurately and comprehensively to provide a clear reflection of your achievements and engagement.

Deadline: The deadline for submitting the completed API is on or before **31st August 2023**. Late submissions may adversely affect the assessment process, so we encourage you to submit the report on time.

Submission Guideline: Hardcopy duly signed by the HOD, IQAC and Principal. Soft copy of same in PDF format should send to email iqac.amruteshwar.college@gmail.com


IQAC-Coordinator

I.Q.A.C.
Amruteshwar Arts, Commerce
& Science College, Vinzar,
Tal. Velha, Dist. Pune.



Principal

Principal
Amruteshwar Arts, Commerce & Science
College, Vinzar, Tal. Velha, Dist. Pune



Savitribai Phule Pune University
(Formerly University of Pune)



SECTION- A: GENERAL

1	Name	:	DEEPAK BHASKAR SHELKE
2	Designation	:	Assistant Professor
3	Date of Joining	:	17.06.2016
4	Name of Department/College	:	Department of Botany, Amruteshwar Art's, Commerce and Science College
5	Email	:	dpk.shelke1@gmail.com
6	Mobile Number	:	7038180817
7	Current Designation	:	Assistant Professor
8	Grade Pay	:	Academic Level 11 (AGP 7000)
9	Designation of promotion with due date of Eligibility	:	Assistant Professor Academic Level 12 Dt. 17.06.2025
10	Assessment Period	:	17.06.2020 - 17.06.2025
11	Year Of Performance Appraisal	:	2022 - 2023

SECTION- B

Appendix II

Table 1

Assessment Criteria and Methodology for College Teachers

S. No.	Activity	Grading Criteria	Self Appraisal Grading	Verified Grading
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1	Teaching: (Number of classes taught/total classes assigned)x100% (Classes taught includes sessions on tutorials, lab and other teaching related activities)	80% & above	:	Good	Total Classes Assigned	:	580
		Below 80% but 70% & above	:	Satisfactory	No. of classes Taught	:	580
		Less than 70%	:	Not satisfactory	% of Classes Taught	:	100
					Grade	:	Good
2	Involvement in the University/College students related activities/research activities: (a) Administrative responsibilities such as Head, Chairperson/ Dean/ Director/ Coordinator, Warden, etc. (b) Examination and evaluation duties assigned by the college / university or attending the examination paper evaluation. (c) Student related co-curricular, extension and field based activities such as student clubs, career counselling, study visits, student seminars and other events, cultural, sports, NCC, NSS and community services. (d) Organising	Involved in at least 3 activities	:	Good	Sr. No.	YES/NO	
		1-2-activities	:	Satisfactory	(a)	YES	
		Not involved / undertake n any of activities	:	Not satisfactory	(b)	YES	
					(c)	YES	
					(d)	YES	
					(e)	YES	
					(f)	NO	
					(g)	NO	
					Grade	Good	



seminars/ conferences/ workshops, other college/university activities. (e) Evidence of actively involved in guiding Ph.D. students. (f) Conducting minor or major research project sponsored by national or International agencies. (g) At least one single or joint publication in peer- reviewed or UGC list of Journals.			
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Overall Grading:

Good in Teaching and satisfactory or Good in activity at S. No. 2	Good
Satisfactory in teaching and good or satisfactory in activity at S. No. 2	Satisfactory
If neither good nor satisfactory in overall grading	Not Satisfactory

Good

Note: For the purpose of assessing the grading of Activity at Serial No. 1 and Serial No. 2, all such periods of duration which have been spent by the teacher on different kinds of paid leaves such as Maternity Leave, Child Care Leave, Study Leave, Medical Leave, Extraordinary Leave and Deputation shall be excluded from the grading assessment. The teacher shall be assessed for the remaining period of duration and the same shall be extrapolated for the entire period of assessment to arrive at the grading of the teacher. The teacher on such leaves or deputation as mentioned above shall not be put to any disadvantage for promotion under CAS due to his/her absence from his/her teaching responsibilities subject to the



condition that such leave/deputation was undertaken with the prior approval of the competent authority following all procedures laid down in these regulations and as per the acts, statutes and ordinances of the parent institution.

Table 2

Methodology for University and College Teachers for calculating Academic/ Research Score

(Assessment must be based on evidence produced by the teacher such as: copy of publications, project sanction letter, utilization and completion certificates issued by the University and acknowledgements for patent filing and approval letters, students' Ph.D. award letter, etc.,)

S. No.	Academic/Research Activity	Faculty of Sciences	Self Appraisal Score	Verified Score
1	Research Papers in Peer-Reviewed or UGC listed Journals	08 per paper	91*1=9.1 5.2*1=5.2	14.3
2	Publications (other than Research papers)			
	(a) Books authored which are published by:		-	-
	International publishers	12	-	-
	National Publishers	10	10	10
	Chapter in Edited Book	05	3.5*1=3.5	3.5
	Editor of Book by International Publisher	10	-	-
	Editor of Book by National Publisher	08	-	-
	(b) Translation works in Indian and Foreign Languages by qualified faculties		-	-
	Chapter or Research paper	03	-	-
	Book	08	-	-
3	Creation of ICT mediated Teaching Learning pedagogy and content and development of new and innovative courses and curricula		-	-
	(a) Development of Innovative pedagogy	05	-	-
	(b) Design of new curricula and courses	02 per curricula/course	-	-
	(c) MOOCs		-	-
	Development of complete MOOCs in 4 quadrants (4 credit course) (In case of MOOCs of lesser credits 05 marks/credit)	20	-	-
	MOOCs (developed in 4 quadrant) per module/lecture	05	-	-
	Content writer/subject matter expert for each	02	-	-



	module of MOOCs (at least one quadrant)			
	Course Coordinator for MOOCs (4 credit course) (In case of MOOCs of lesser credits 02 marks/credit)	08	-	-
	(d) E-Content			
	Development of e-Content in 4 quadrants for a complete course/e-book	12	-	-
	e-Content (developed in 4 quadrants) per module	05	-	-
	Contribution to development of e-content module in complete course/paper/e-book (at least one quadrant)	02	-	-
	Editor of e-content for complete course/ paper /e-book	10	-	-
4	(a) Research guidance			
	Ph.D.	10 per degree awarded 05 per thesis submitted	-	-
	M.Phil./P.G dissertation	02 per degree awarded	-	-
	(b) Research Projects Completed			
	More than 10 lakhs	10	-	-
	Less than 10 lakhs	05	-	-
	(c) Research Projects Ongoing :			
	More than 10 lakhs	05	-	-
	Less than 10 lakhs	02	-	-
	(d) Consultancy	03	-	-
5	(a) Patents			
	International	10	-	-
	National	07	-	-
	(b) *Policy Document (Submitted to an International body/organisation like UNO/UNESCO/World Bank/International Monetary Fund etc. or Central Government or State Government)			
	International	10	-	-
	National	07	-	-
	State	04	-	-
	(c) Awards/Fellowship			
	International	07	-	-
	National	05	-	-
6	*Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference Proceedings (Paper presented in Seminars/Conferences and also published as full paper in Conference Proceedings will be counted only once)			
	International (Abroad)	07	-	-



International (within country)	05	5*1=5	5
National	03	-	-
State/University	02	-	-
Total -1+2+3+4+5+6 =		32.8	32.8

The Research score for research papers would be augmented as follows:

Peer-Reviewed or UGC-listed Journals (Impact factor to be determined as per Thomson Reuters list):

- i) Paper in refereed journals without impact factor - 5 Points
- ii) Paper with impact factor less than 1 - 10 Points
- iii) Paper with impact factor between 1 and 2 - 15 Points
- iv) Paper with impact factor between 2 and 5 - 20 Points
- v) Paper with impact factor between 5 and 10 - 25 Points
- vi) Paper with impact factor >10 - 30 Points
- a) Two authors: 70% of total value of publication for each author.
- b) More than two authors: 70% of total value of publication for the First/Principal/Corresponding author and 30% of total value of publication for each of the joint authors.
- c) Joint Projects: Principal Investigator and Co-investigator would get 50% each.


**** Separate Sheet attached**

Sr. No.	Academic /Research Score	Self-appraisal Score	Verified Score
1	Research Papers in Peer-Reviewed or UGC listed Journals	14.3	
2	Publication (Other than Research papers)	13.5	
3	Creation of ICT mediated Teaching Learning pedagogy and content and development of new and innovative course and curricula	-	
4	a) Research Guidance/ b) Research Projects Completed/ c) Research Projects On-going/ d) Consultancy	-	
5	a) Patents/ b) Policy documents/ c) Awards/ Fellowship	-	
6	Invited lectures/Resource Person/paper presentation in seminars/Conferences/full paper in conference proceeding (Paper presented in Seminar/Conference and also published as full paper in conference Proceeding will be counted only once)	05	
	Total of- III (1+2+3+4+5+6)	32.8	
	Score after Capping from the Categories 5 (b) and 6	9.84	
	Total Score after Capping from the Categories 5 (b) and 6	42.64	

Note:

- Paper presented if part of edited book or proceeding then it can be claimed only once.
- For joint supervision of research students, the formula shall be 70% of the total score for Supervisor and Co-supervisor. Supervisor and Co-supervisor, both shall get 7 marks each.
- *For the purpose of calculating research score of the teacher, the combined research score from the categories of 5(b). Policy Document and 6. Invited lectures/Resource Person/Paper presentation shall have an upper capping of thirty percent of the total research score of the teacher concerned.
- The research score shall be from the minimum of three categories out of six categories.


Signature of Teacher

Head of Department

Coordinator (IQAC)

I.Q.A.C.
Amruteshwar Arts, Commerce
& Science College, Vinzar,
Tal. Velhe, Dist. Pune

Date: 15/06/2023



Signature of Principal
Principals,

Amruteshwar Arts, Commerce & Science
College, Vinzar Tal. Velhe, Dist. Pune



SCF72100011

Savitribai Phule Pune University

(Formerly University of Pune)

Telephone No: 25621171/1174

E-mail : rr@unipune.ac.in

Telegraph : 'UNIPUNE'

Fax No : 25691233

**ACADEMIC SECTION****Ganeshkhind, PUNE-411 007**

Ref. No: BOD/Sci. & Tech./40/17

Date: 13/01/2022

To

Dr. Deepak Bhaskar Shelke

Samaj Shikshan Mandal Amruteshwar Arts

Commerce & Science College Addr: At Post

Vinzar Ta: Velha Dist: Pune Pincode :412213

**Subject : Recognition as a Post Graduate Teacher & Ph.D. Research**

Sir,

Please refer to your application for Recognition as a Post Graduate Teacher & Ph.D. Research Guide of Savitribai Phule Pune University, I am directed to inform you that the University authorities have been pleased to recognize you as a Post Graduate Teacher & Ph.D. Research Guide of this University under the provision of Section 37(1)(e) of the Maharashtra Public Universities Act, 2016.

The details of your recognition are as under :

Designation	Faculty	Subject	Recognition on	Duration	No. of Students Allowed
Assistant Professor	Science and Technology	Botany	P. G. Teacher Ph.D. Guide	w.e.f. 05-01-2022 w.e.f. 05-01-2022 To 08/10/2048(To Superannuation)	4 - Ph.D.

Note :

Your guideship is subject to the following conditions and other terms and conditions prescribed by the University and University Grants Commission, (UGC) New Delhi from time to time in this behalf:

- i) Ph.D./M.Phil Research Guideship will be governed by the University Grants Commission (Minimum Standards and Procedure for Award of Ph.D./M.Phil Degree) Regulations 2016.
- ii) a) If the affiliation/Recognition granted by the university to your College/Institute gets over then the recognition granted to you will be treated as cancelled from the date on which the period of affiliation/recognition gets over.
b) In case of Research Institute, it should be recognized by the University for the subject for which you are recognized as Ph.D./M.Phil Research Guide.
- iii) No fresh Ph.D./M.Phil 'Research Students' should be registered with Ph.D./M.Phil Research Guides whose length of service as a regular faculty is left not more than one year and in such case you have to compulsorily assign Co-guide to the Research Students working under you.

In addition to the above conditions, it is essential to mention the name of 'Savitribai Phule Pune University' in author's address in the Publications made by you and your students.





"सर्व श्रेष्ठ दान विद्यादान"
समाज शिक्षण मंडळ, विंझर संचालित

अमृतेश्वर कला, वाणिज्य आणि विज्ञान महाविद्यालय, विंझर

मु.पो. विंझर, ता. वेल्हे, जि. पुणे - ४१२२१३

टेलीफोन नं. (ऑ.) ०२१३० - २३२३२३

[ID No. PU / PN / AC 121/ (1997)]

पेफ पुनर्मुल्यांकन - पी

ईमेल : amruteshwar13@gmail.com

वेबसाईट : amruteshwar.org

Outward No- AACSC/ Bot1 /2022-23

Date-4th January 2023

To,
Dr. Deepak B. Shelke,
Assistant Professor,
Department of Botany,
Amruteshwar ACS, Vinzar, Pune

Subject: Appointment of Internal / External examiner at F.Y B. Sc. Botany Practical Examination Oct/Nov-2022

Dear sir / Madam,

I am pleased to inform you that you have been appointed as an Examiner for F. Y. B. Sc. Botany Practical Examination Oct/Nov-2022 to be held in January-2023. Internal examiners are requested to manage all technical support require for conducting exam. You are requested to set the question papers for all the courses on the preparation day along with other examiners.

You are also requested to upload marks on the University website within the stipulated time.

Sr No	Class	Nature of Appointment	Date	Time
1	FY BSc Sem-I	External Examiner	09-01-2023 to 10-01-2023	08.30 AM to 03.30 PM

Thanking You!

J. Shikhande

[Signature]

Principal
Principal

Amruteshwar Arts, Commerce & Science
College, Vinzar, Tal. Velhe, Dist. Pune





“सर्व श्रेष्ठ दान विद्यादान”
समाज शिक्षण मंडळ, विंझर संचलित

अमृतेश्वर कला, वाणिज्य आणि विज्ञान महाविद्यालय, विंझर

मु.पो. विंझर, ता. वेल्हे, जि. पुणे - ४१२२१३

टेलीफॉक्स नं. (ऑ.) ०२१३० - २३२३२३

[ID No. PU / PN / AC 121/ (1997)]

बँक पुनर्मुल्यांकन - यी

ईमेल : amruteshwar13@gmail.com

वेबसाईट : amruteshwar.org

Outward No- AACSC/Pract_Exam/2022-23/Bot-1

Date-21st April 2023

To,
Dr. Deepak B. Shelke,
Assistant Professor,
Department of Botany,
Amruteshwar ACS, Vinzar, Pune

Subject: Appointment of Internal / External examiner at FY/SY/T. Y. B. Sc. Botany Practical Examination April/May-2023

Dear sir / Madam,

I am pleased to inform you that you have been appointed as an Examiner for FY/SY/TY B.Sc. Botany Practical Examination April/May 2023 to be held as per scheduled. Internal examiners are requested to manage all technical support require for conducting exam. You are requested to set the question papers for all the three courses on the preparation day along with other examiners.

You are also requested to upload marks on the University website within the stipulated time.

Sr No	Class	Nature of Appointment	Date	Time
1	FY BSc Sem-II	External Examiner	28-04-2023 to 29-04-2023	08.30 AM to 03.00 PM
2	SY BSc Sem-IV	External Examiner	10-05-2023	08.30 AM to 03.00 PM
3	TY BSc (Paper-I)	External Examiner	04-05-2023	08.30 AM to 11.30 AM
4	TY BSc (Paper-II)	External Examiner	04-05-2023	12.00 PM to 03.30 PM
5	TY BSc (Paper-III)	External Examiner	06-05-2023	08.30 AM to 11.30 AM

Thanking you!

J. Shethkar



[Signature]
Principal
Principal
Amruteshwar Arts, Commerce & Science
College, Vinzar, Tal. Velhe, Dist. Pune





"सर्व श्रेष्ठ दान विद्यादान"
समाज शिक्षण मंडळ, विंझर संचलित

अमृतेश्वर कला, वाणिज्य आणि विज्ञान महाविद्यालय, विंझर

मु.पो. विंझर, ता. वेल्हे, जि. पुणे - ४१२२१३

टेलीफॉन्क्स नं. (ऑ.) ०२१३० - २३२३२३

[ID No. PU / PN / AC 121/ (1997)]

पेक पुढीलप्रमाणे आहे

ईमेल : amruteshwar13@gmail.com

वेबसाईट : amruteshwar.org

Outward No- AACSC/863 /2021-22

Date-6th May 2022

To,
Dr. Mahadev Chambhare,
Assistant Professor,
Department of Botany,
Amruteshwar ACS, Vinzar, Pune

Subject: Appointment of Internal / External examiner at FY/SY/T. Y. B. Sc. Botany Practical Examination May-2022

Dear sir / Madam,

I am pleased to inform you that you have been appointed as an Examiner for FY/SY/T. Y. B. Sc. Botany Practical Examination May-2022 to be held in May 2022. Internal examiners are requested to manage all technical support require for conducting exam. You are requested to set the question papers for all the three courses on the preparation day along with other examiners.

You are also requested to upload marks on the University website within the stipulated time.

Sr No	Class	Nature of Appointment	Date	Time
1	FY BSc Sem-II	Internal Examiner	18-05-2022 to 19-05-2022	08.30 AM to 03.00 PM
2	SY BSc Sem-IV	Internal Examiner	12-05-2022	08.30 AM to 03.00 PM

Thanking you!



Principal
Amruteshwar Arts, Commerce & Science
College, Vinzar, Tal. Velha, Dist. Pune.

CONFIDENTIAL FORM NO 1-D

URGENT

Ref No-1/TY/PR/2022

Date: 20/12/2022



Dr. Deepak Shelke
Department of Botany
Amruteshwar Arts, Commerce & Science College
Vinzar, Pune

I am directed to invite you to examine the candidates in the practical examination at **T.Y. B.Sc. Oct. 2022.**

1. The invitation is based on certain assumptions and subject to respective provisions of the Maharashtra Universities Act, 2016, and the statutes/Ordinances, Rules & Regulations framed there under.

2. I am request the favor of an intimation of your acceptance or otherwise of this invitation in the accompanying letter of acceptance, immediately. The same should be intimated to the co-coordinator of your subject also. I am further requesting you to forward your letter of acceptance immediately.

3. You are requested to put yourself in communication with me immediately in regard to your work at the examination.

4. Any change in address may please be communicated to me and the university office.

5. I am further to request you please intimate to me if you are holding any other appointment at this university, other than this appointment under which you are invited to work as an examiner.

6. You are requested to submit the following material to me immediately after completing your work.

(i) Mark list (ii) A - B Form (iii) No relation certificate (iv) Attendance report.

(v) General performance report (vi) Certificate no 1 showing the Number of Candidates examined.

(vii) Number of candidates examined out of turns.

Date of Exam- Internal examiner: -31 December 2022, 1,2 January 2023

Date of Exam- External examiner: - 26,27,28 December 2022

Name of the College: Prof. Ramkrishna More Arts, Commerce & Science College Pune

Yours faithfully,

Dr. Sayyed Iliyas

(Coordinator T.Y.B.Sc. Practical Examination, Pune District)

Associate Professor,

Department of Botany,

AKIS Poona College of Arts, Science and Commerce, Camp. Pune-411001

Contact No. 9822673101

Email ID: sayyed_iliyas@yahoo.com



To,

Shelke Deepak Bhaskar

College: Samaj Shikshan Mandal Amruteshwar Arts, Commerce & Science College Addr: At Post Vinzar Ta: Velha Dist: Pune


Mobile No. : 7038180817

Email : dpk.shelke1@gmail.com



Sir/ Madam,

You have been appointed for Central Assessment Programme (CAP) details as follows

Post Name	Examination	Paper / Subject	Chairman	Schedule Date
Examiner CAP Appt No. 2320391376	T.Y.B.Sc. 2019 Pattern (Theory) BOS:Botany 	Exam - T.Y.B.Sc. 2019 Pattern Paper-Botany ,(Theory)	Patil Hanmantrao Sahebrao Vidya Pratishthan Arts, Science and Commerce College Addr: Vidyanagari Baramati Ta: Baramati Dist: Pune 9922458810	From : 15/02/2023

CAP Center Name & Address :	Modern Education Society Nowrosjee Wadia College Addr: PRIN 19 LATE V K JOAG PATH PUNE Ta: Pune (corporation Area) Dist: Pune
Telephone No. :	020-26162944
Email Id :	nowrosjeeewadiacollege1@gmail.com
CAP Director :	Name: Vasant Vidyadhar Chabukswar Contact Person Mob No.: 9960125609

Please note that As per Maharashtra Public Universities Act, 2016 It shall be obligatory on every teacher and on the non-teaching employee of the university, affiliated, conducted or autonomous college or recognized institution to render necessary assistance and service in respect of examinations of the university. If any teacher or non-teaching employee fails to comply with the order of the university or college or institution, in this respect, it shall be treated as misconduct and the employee shall be liable for disciplinary action".

I seek your co-operation.

Thanking You

Yours faithfully,

For CAP Director

To,
The Principal/Directors,

You are requested to relieve the teachers for paper setting. Also requested to communicate names of the teacher/s who remain absent for the work of paper setting, the said information is required for submission to the University Authorities for necessary action under the provisions of section 48(4) of the Maharashtra Universities Act, 2016.

For early payment of examination work remuneration through ECS, you are requested to update your BCUD online teacher profile with financial details. Also submit printed copy of same at the time of paper setting meeting. For details contact 02025601235

THIS IS A COMPUTER-GENERATED DOCUMENT AND IT DOES NOT REQUIRE A SIGNATURE. THIS DOCUMENT SHALL NOT BE INVALIDATED SOLELY ON THE GROUND THAT IT IS NOT SIGNED.

2/15/2023 5:13:50 PM

1 of 1



Scanned with OKEN Scanner

Savitribai Phule Pune University

Formerly University Of Pune

Phone :020-25621440/25621447
Fax : 020-25621441
Email :
ar.coordination@pun.unipune.ac.
in
Web : http://www.unipune.ac.in



CO-ORDINATION SECTION
Ganeshkhind, Pune - 411 007
Maharashtra (INDIA)

First half of the year,2023



23051800027

Shelke Deepak Bhaskar

Samaj Shikshan Mandal Amruteshwar Arts, Commerce & Science College Addr: At Post Vinzar, Tal: Velha Dist: Pune

Mobile No. : 7038180817

Email : dpk.shelke1@gmail.com



18/05/2023 05:00

Sir/ Madam,

1. The University Authorities have been pleased to appoint you for the Paper Setter, in the subject of :-

Post Name	Examination	Paper / Subject	Chairman	Important Dates
Paper Setter Appt NO. 23134399	T.Y.B.Sc. 2019 Pattern (Theory) BOS:Botany 	Paper-Botany , Sem V & VI (3 Ques. Paper Set compulsary)	Patil Hanmantrao Sahebrao Vidya Pratishthan Arts, Science and Commerce College Addr: Vidyanagari Baramati Ta: Baramati Dist: Pune 9922458810	P.S. Meetings 11.05.23 To 13.05.23 Manuscript Submission 13.05.23

2. This appointment is based on certain assumptions and subject to respective provisions of Maharashtra Public Universities Act, 2016 and Statutes/ Ordinances, Rule and Regulations framed thereunder.

It shall be obligatory on every teacher and on the non-teaching employee of the University, affiliated, conducted colleges, community colleges or recognized institution to render necessary assistance and service in respect of examination of the university and evaluation of students as prescribed by statutes. If any teacher or non-teaching employee fails to comply with the order of the university or colleges or institution, in this respect, it shall be treated as misconduct and the employee shall be liable for disciplinary action. In case of failure on the part of the teacher or non-teaching employee of any affiliated college, conducted college, community college or recognized institution, to comply with the order of the university in this respect, the vice-chancellor shall have power to take an appropriate action against them, which may include imposing penalties including suspension of approval to the appointment of a teacher, as may be prescribed by Statutes.

- Please put yourself in communication with your Chairman immediately in regard to the meeting of the paper setting.
- If required, you will be called by the Director, Central Assessment Programme for Central Assessment.
- Please intimate the Director, Board of Examination and Evaluation, Savitribai Phule Pune University, Ganeshkhind, Pune 411 007, in case you are holding the other appointments of this University, if any.
- Any change in the address, phone no., email address etc may please be communicated to both, the Chairman and the Co-ordination Section, Examination Branch, Savitribai Phule Pune University, Ganeshkhind, Pune-7.
- The TADA will be paid only to those paper-setters who will attend the meeting of the paper-setters on the invitation from the concerned chairman. **Travel by car for attending meeting is not allowed.**
- Please read and adhere to the enclosed important instructions.
- The chairman should produce his order while submitting question papers to strong room section.

I seek your co-operation.

Thanking You

Yours,

Director, Board of Examination and Evaluation

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Ref.No-SPPU/SYBSC_Botany_Practical/2022/Appt No.74

Mr. Deepak Shelke

**Department of Botany,
AMRUTESHWAR ARTS, COMMERCE & SCIENCE COLLEGE VINZAR,PUNE**

I am directed to invite you to examine the candidates in practical examination at S. Y. B.Sc. December 2022

1. The invitation is based on certain assumptions and subject to respective provisions of the Maharashtra Universities Act, 1994 and the statutes/Ordinances, Rules & Regulations framed there under.

2. I am request the favor of an intimation of your acceptance or otherwise of this invitation in the accompanying letter of acceptance , immediately .The same should be intimated to the co-coordinator of your subject also. I am further requesting you to forward your letter of acceptance immediately.

3. You are requested to put yourself in communication with me immediately in regard to your work at the examination.

4. Any change in address may please be communicated to me and the university office.

5. I am further to request you please intimate to me if you are holding any other appointment of this university, other than this appointment under which you are invited to work as examiner .

6. You are requested to submit the following material to me immediately after completing your work.

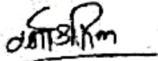
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(v)General performance report (vi) Certificate no 1 showing the Number of Candidates examined.

(vii) Number of candidates examined out of turns.

Date of Exam- Internal examiner: -30/12/2022

Yours faithfully,



Dr. Varsha Shriram

(Co-ordinator S.Y. B. Sc. Practical Examination, Pune District)

Prof. Ramkrishna More

Arts, Science and Commerce College,

Akurdi, pradhikaran , Pune

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Email id:varshashiram76@gmail.com





Review Article

Improvement of Soybean Crop for Yield, Stress Tolerance, and Value-Added Products Using a Transgenic Approach

Deepak B. Shelke ¹, Mahadev R. Chambhare ¹, Ganesh C. Nikalje ², and T. D. Nikam ³

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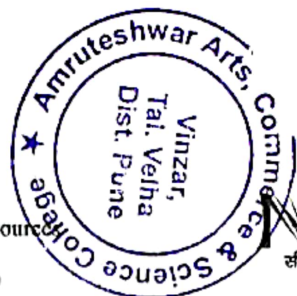
Soybean (*Glycine max*) is an economically important crop, ranking first among the edible oilseed crops in the world due to its oil content and nutritional value. Besides, it is used as a dietary supplement and a source of pharmaceuticals. The recent rapid climate changes and increasing global population have led to increasing demand for vegetable oil. In the recent past, advances in the field of plant biotechnology have revolutionized agricultural practices at a global level to enhance the yield of crops. This technology not only makes an impact on the agricultural market but also opens up new corridors for agriculture-related industrial applications of this important crop. Therefore, in the last two decades, soybean has gained attention for genetic improvement with remarkable developments in the manipulations of genes for the induction of desired characteristics. In this review, we introduced the transgenic approach as a promising tool for the improvement of soybean oilseed quality and productivity. Then, the enhancement of nutritional and pharmaceutical value together with biotic and abiotic stress-resistant ability was summarized and compared. The methods and strategies for achieving soybean crops with improved abiotic stress tolerance, productivity, and pharmaceuticals are categorized to help with future research.

1. Introduction

Soybean (*Glycine max* (L.) Merr.) is an important annual edible oilseed crop belonging to the *Fabaceae* family. It is the fourth largest crop in the world, mainly cultivated in tropical and subtropical regions [1]. At a global level, the soybean crop is one of the major and cheapest sources of vegetable protein for millions of people and animals. Being high in protein content and having very less or no starch, it is good food for diabetics [2]. In some parts of the world, it is consumed in the form of soymilk (whitish liquid extract from the seed), tofu (curd prepared from seed extract), soy sauce, and some other fermented products. Besides, it is an attractive crop for biodiesel production [3]. The crop also plays a key role in biological

nitrogen fixation and the improvement of soil fertility [4]. At a global level, there is a tremendous increase in demand for soybean oil and food products. On the other hand, climate change and biotic and abiotic stress exposure cause pressure on agriculture and result in the decline of yield. Therefore, there is a need for improved soybean cultivars which can manage growth and yield under stressful environment.

Several soybean cultivars are available but with constricted germplasm [5]. The gene pool of soybean requires the incorporation of multiple genes for its improvement. There are rich genetic resources in wild relatives of soybean, but incompatibility issues make it difficult to transfer useful traits via interspecific crosses [6]. Therefore, genetic engineering is essential for the introduction of elite genes and to



Antioxidant and antimicrobial potential of *Canavalia gladiata* (Jacq.) DC. leaves and seeds: GC-MS based metabolic profiling

Kamlakar More^{1*}, Sunil Tayade¹, Prashant Gawande¹, Surendra Manik¹ and Deepak Shelke²

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Received 15 March 2021; Revised 22 May 2022

Canavalia gladiata (Sword Bean; family Fabaceae) is a fast-growing climber crop that has been widely cultivated in tropical and subtropical areas for its edible seeds and legumes. It has also been used as grain legume and medicinal plant in China for thousands of years. The metabolites from leaves and seeds of *C. gladiata* were extracted in petroleum ether and chloroform. Further, extracts were subjected to GC-MS analysis for metabolite profiling. Total of 31 phytoconstituents were identified; 14 compounds were reported to have biological activities. The Tridecane reported from leaves and seeds petroleum ether extract showed 10.67 and 2.72% of relative quantity of compound respectively and has antioxidant and antimicrobial activity. Octasiloxane, 1,1,3,3,5,5,7,7,9,9,11,11,11,15,15-hexadecamethyl (3.42%) found in petroleum ether leaves extracts showed antimicrobial activity. Moreover, 1-Hexadecane constituted 10.23% in seeds and 3.71% relative quantity in leaves extracted with chloroform showed antibacterial activity. The seeds and leaves extracted with chloroform reported 1-Tetradecene in 6.59 and 6.03% relative quantity respectively has antifungal potential. While Phenol 2, 4-bis [1, 1-dimethylethyl] reported in leaves (6.12%) and seeds (6.47%) chloroform extract act as antioxidant and antimicrobial agents. The 1-Nonadecene in seeds (3.47%) and leaves (2.14%) chloroform extracts showed antifungal activity while 1-Docosene in seeds (2.98%) and leaves (1.71%) of chloroform extract showed antimicrobial potential. Nonadecane constituted 3.06% in seeds and 2.78% in leaves chloroform extracts and has antioxidant potential. The present study revealed that the leaves and seeds of *C. gladiata* are a good source of antioxidants and other biologically active ingredients. However, petroleum ether and chloroform extracted different metabolites from seeds and leaves. Therefore, these findings highlighted the importance of solvent in phytochemical extractions and further bioactivity of *C. gladiata* metabolites creates an attention of researchers for their use in the field of paramedical industries and herbal medicine.

Keywords: Antimicrobial activity, Antioxidant, Bioactive compounds, *Canavalia gladiata*, GC-MS analysis.

IPC code; Int. cl. (2021.01)- A61K 36/00, A61K 36/48, A61K 127/00, A61K 131/00, A61P 31/00, A61P 39/00

Introduction

From ancient time, the villagers have been using plants to cure various diseases due to promising source of phytoconstituents and therapeutic properties of the plants^{1,2}. The plants derived medicinal compounds are the major source for pharmaceutical industries to develop new drugs and medicines for curing challenging health issues and diseases³. The antioxidants of the plants have great potential to detoxify the effect of oxidants or free radicals; most of the human diseases are arising due to less level of natural antioxidants in the body^{4,5}. The isolation and identification of plant-derived bioactive compounds is a present need to fight against various environmental stresses⁶. The natural antioxidant gain popularity over synthetic antioxidants in food and pharmaceutical

industries due to their effective nature. The edible and non-edible plants are rich sources of polyphenolic compounds and they have been reported with a variety of biological effects including antioxidant activity⁸⁻⁹.

Canavalia gladiata (Jacq.) DC. (family Fabaceae) is widely cultivated in tropical regions like Africa, South and Southeast Asia (Sri Lanka, India, Indonesia, China, Korea and Japan). It is called 'sword bean' since its fruits have a shape similar to a straw cutter¹⁰. The *C. gladiata* is considered as being an underutilized legume although it has a good nutraceutical and medicinal potential as well as good agronomical status for cultivation¹¹. It is commonly grown in Asia but has now spread to the tropical region of West Indies, Africa, South America, and Australia as a supplement of carbohydrates, proteins, vitamins, and minerals¹¹⁻¹². It has been used to treat nausea, vomiting, back pain, abdominal discomfort,

*Correspondent author


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Environmental and Microbial Biotechnology

Ram Prasad
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Beneficial Microorganisms in Agriculture



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Chapter 7

Fungal Endophytes: Potential Benefits of Their Future Use in Plant Stress Tolerance and Agriculture



Deepak Bhaskar Shelke, Mahadev R. Chambhare, and Hiralal Sonawane

Abstract Global climate change, improper land use, overuse of chemical fertilizers and urban sprawl lead to radical impact on the agricultural production. It also increases abiotic and biotic stresses on crop plants which in turn causes decline in crop yield. This increased the concern of food security worldwide. To provide the food for increasing global population, there is need to increase crop production through sustainable route. The endophytes are group of microorganisms found in plant tissues. It may be beneficial, non-pathogenic, commensal and pathogenic. The beneficial endophytes are the living microorganisms mutually associated with a specific plant and help them to survive under adverse climate conditions. The plant diversity in different climatic zones also leads to endophyte diversity due to their host specificity and growing environment. Among the microorganisms some group of fungi also reside inside the plant body which is referred to as a fungal endophyte. The beneficial fungal endophytes help plant for their growth and development and protect them from adverse climate conditions for their successful survival. Moreover, it produces various metabolites which help plant to defence against abiotic and biotic stresses. The metabolites produced from fungal endophytes recently also gain popularity for their use in various biological fields. Therefore, this chapter provides information on the fungal endophytes, their characteristics, potential use to improve plant abiotic and biotic stress tolerance, weed control, avoiding post-harvest loss and utilization of their bioactive metabolites as prerequisite for crop improvement and sustainable agriculture.

Keywords Fungal endophytes · Plant · Stress tolerance · Sustainable agriculture · Weed control

D. B. Shelke · M. R. Chambhare

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H. Sonawane (✉)

PG Research Centre in Botany, Prof. Ramkrishna More Arts, Commerce and Science College, Pune, India

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Yashwantrao Chavan Maharashtra Open University



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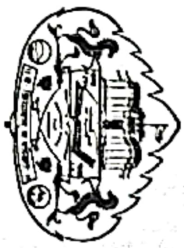
has delivered an invited talk / presented a research paper in poster session / Participated at the International symposium on Sustainable Environment and Smart Technology (SEST-2023) jointly organized by PDEA's Prof. Ramkrishna More College, Akurdi and Department of Technology, SPPU, during 10-11th March 2023 at YASHADA, Pune

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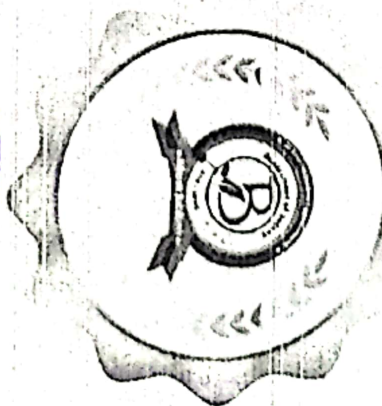
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Convener & Principal

Date : 28th February, 2023



SAMAJ SHIKSHAN MANDAL'S

AMRUTESHWAR ARTS, COMMERCE AND SCIENCE COLLEGE, VINZAR, Tal. – VELHA, DIST. – PUNE. 412 213

RESULT SUMMARY – UNIVERSITY SEMESTER EXAMINATION

DEPARTMENT OF COMMERCE

Class: T Y B COM.

Semester: 5th

Over All Result

Academic Year: 2022-2023

Admission	Appeared	Absent	Choice Base Credit Pattern 2019 (Semester) - Cumulative Grade Point Average (CGPA)									ATKT	Result %	Rank of the students
			Grade	F	D	C	B	B+	A	A+	O			
			CGPA	0.00-3.99	4.00-4.49	4.50-5.49	5.50+5.99	6.00-6.99	7.00-7.99	8.00-8.99	9.00-10.00			
			Marks	00-39	40-44	45-49	50-54	55-59	60-74	75-89	90-100			
85	85	05	---	41	00	00	01	03	33	07	00	--	44 Pass 55.00%	1. Bhagat Akshata S. (8.90) 2. Badhe Rutuja R. (8.86) 3. Adhawade Dhanshri R. (8.67)

Class: T Y B COM.

Semester: 6th

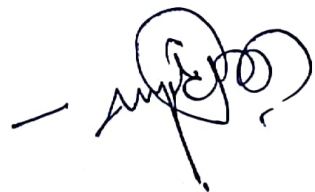
Over All Result


85	85	--	--	08	00	00	00	01	49	27	00	--	77 Pass 90.58%	Adhawade Dhanshri R. (8.99) Bhagat Akshata Subhash (8.86) Badhe Tutuja Rajaram (8.33)
----	----	----	----	----	----	----	----	----	----	----	----	----	----------------------	---

Class	Name of Students	CGPA	Rank
OVER ALL RESULT OF THE CLASS	Adhawade Dhanshri Ramesh	8.99	1 st
	Bhagat Akshata Subhash	8.86	2 nd
	Badhe Tutuja Rajaram	8.33	3 rd

Date : 28th July 2023

Place : Vinzar, Velha (Pune)


Class Guardian (Dr. Vijay B. Kadam)


Principal
Amruteshwar Arts, Commerce & Science
College, Vinzar, Tal. Velha, Dist. Pune.
Principal (Dr. Sanjeev S. Late)



RESULT SUMMARY – UNIVERSITY SEMESTER EXAMINATION


Faculty: COMMERCE

Name of Subject's Teacher: DR. VIJAY BAPU KADAM

Class: F Y B COM.

Semester: 1stCourse: (114A) Business Mathematics & Statistics – Paper 1st

Academic Year: 2022-2023

 Admission	Appeared	Absent	Choice Base Credit Pattern 2019 (Semester) - Cumulative Grade Point Average (CGPA)									Pass Students %	Rank of the students
			Grade	F	D	C	B	B+	A	A+	O		
			CGPA	0.00-3.99	4.00-4.49	4.50-5.49	5.50+5.99	6.00-6.99	7.00-7.99	8.00-8.99	9.00-10.00		
			Marks	00-39	40-44	45-49	50-54	55-59	60-74	75-89	90-100		
120	111	09	---	13	04	06	12	13	43	13	--	91 Students 87.50 %	1. Talde Swati Sanjay (88) 2. Nalawade Kirti Tanaji (83) 3. Jamdar Anuja Sunil (80)
Class: F Y B COM. Semester: 2 nd Course: (124A) Business Mathematics & Statistics – Paper 2 nd													
120	113	07	---	07	07	07	22	22	36	11	01	106 Students 93.80 %	1. Balkawade Pravin Maruti (91) 2. Jamdar Anuja Sunil (85) 3. Madgude Sakshi Daynnoba (84)

Class	Name of Students	Semester 1 st	Semester 2 nd	Obtained / Out of Marks	Percentage	Rank
OVER ALL RESULT OF THE CLASS	Jamdar Anuja Sunil	80	85	165 / 200	82.50 %	1 st
	Minde Mansi Danyaneshwar	78	83	161 / 200	80.50 %	2 nd
	Khutwad Aishwarya Gajanan	76	83	159 / 200	79.50 %	3 rd

Date : 28th July 2023

Place : Vinzar, Velha (Pune)

Subject's Teacher (Dr. Vijay B. Kadam)

Principal (Dr. Sanjeev S. Late)

Principal

Amruteshwar Arts, Commerce & Science
College, Vinzar, Tal. Velha, Dist. Pune

RESULT SUMMARY – UNIVERSITY SEMESTER EXAMINATION

Faculty: COMMERCE

Name of Subject's Teacher: DR. VIJAY BAPU KADAM

Class: S Y B COM.

Semester: 3rdCourse: (231) Business Communication – Paper 1st

Academic Year: 2022-2023

Admission	Appeared	Absent	Choice Base Credit Pattern 2019 (Semester) - Cumulative Grade Point Average (CGPA)									Pass Students %	Rank of the students
			Grade	F	D	C	B	B+	A	A+	O		
			CGPA	0.00-3.99	4.00-4.49	4.50-5.49	5.50+5.99	6.00-6.99	7.00-7.99	8.00-8.99	9.00-10.00		
			Marks	00-39	40-44	45-49	50-54	55-59	60-74	75-89	90-100		
105	89	28	–	19	--	01	11	10	17	03	--	42 Students 68.86 %	1. Bhuruk Prajakta Dattatray (79) 2. Bhosale Tejashri Datta (77) 3. Shinde Kiran Jayvant (76)
Class: S Y B COM. Semester: 4 th Course: (241) Business Communication – Paper 2 nd													
105	81	02	---	--	02	02	04	07	49	15	--	79 Students 100	1. Shinde Kiran Jayvant (87) 2. Sondkar Reshma Sitaram (86) 3. Pansare Shejal Lahu (85)

Class	Name of Students	Semester 3 rd	Semester 4 th	Obtained / Out of Marks	Percentage	Rank
OVER ALL RESULT OF THE CLASS	Shinde Kiran Jayvant	76	87	163 / 200	81.50 %	1 st
	Bhuruk Prajakta Dattatray	79	82	161 / 200	80.50 %	2 nd
	Sondkar Reshma Sitaram	70	86	156 / 200	78.00 %	3 rd

Date : 28th July 2023

Place : Vinzar, Velha (Pune)

Subject's Teacher (Dr. Vijay B. Kadam)

Principal (Dr. Sanjeev S. Late)

Principal

Amruteshwar Arts, Commerce & Science
College, Vinzar, Tal. Velha, Dist. Pune.

SAMAJ SHIKSHAN MANDAL'S

AMRUTESHWAR ARTS, COMMERCE AND SCIENCE COLLEGE, VINZAR, Tal. – VELHA, DIST. – PUNE. 412 213

RESULT SUMMARY – UNIVERSITY SEMESTER EXAMINATION

Faculty: COMMERCE

Name of Subject's Teacher: DR. VIJAY BAPU KADAM

Class: T Y B COM.

Semester: 5th

Course: (352) Advanced Accounting – Paper 1st


Academic Year: 2022-2023


Admission	Appeared	Absent	Choice Base Credit Pattern 2019 (Semester) - Cumulative Grade Point Average (CGPA)									Pass Students %	Rank of the students
			Grade	F	D	C	B	B+	A	A+	O		
			CGPA	0.00-3.99	4.00-4.49	4.50-5.49	5.50+5.99	6.00-6.99	7.00-7.99	8.00-8.99	9.00-10.00		
			Marks	00-39	40-44	45-49	50-54	55-59	60-74	75-89	90-100		
85	85	05	--	34	07	16	10	06	05	02	--	46 Students 57.50 %	1. Adhawade Dhanshri R. (81) 2. Kadu Dipali Maruti (78) 3. Badhe Asha Sitaram (72)
Class: T Y B COM. Semester: 6th Course: (362) Advance Accounting – Paper 2nd													
85	85	--	--	03	05	23	16	10	21	07	--	82 Students 100 %	1. Adhawade Dhanshri R. (83) 2. Bhagat Akshata Subhash (82) 3. Shine Vaishnavi Sanjay (80)

Class	Name of Students	Semester 5 th	Semester 6 th	Obtained / Out of Marks	Percentage	Rank
OVER ALL RESULT OF THE CLASS	Adhawade Dhanashri Ramesh	81	82	163 / 200	81.50 %	1 st
	Kadu Dipali Maruti	78	76	154 / 200	77.00 %	2 nd
	Badhe Asha Sitaram	72	73	145 / 200	72.50 %	3 rd

Date : 28th July 2023

Place : Vinzar, Velha (Pune)


Subject's Teacher (Dr. Vijay B. Kadam)


Principal (Dr. Sanjeev S. Late)

Principal

**Amruteshwar Arts, Commerce & Science
College, Vinzar, Tal. Velha, Dist. Pune.**



SAMAJ SHIKSHAN MANDAL'S

AMRUTESHWAR ARTS, COMMERCE AND SCIENCE COLLEGE, VINZAR, Tal. – VELHA, DIST. – PUNE. 412 213

RESULT SUMMARY – UNIVERSITY SEMESTER EXAMINATION

Faculty: COMMERCE

Name of Subject's Teacher: DR. VIJAY BAPU KADAM

Class: T Y B COM.

Semester: 5th

Course: (355-E) Cost & Works Accounting – Paper 2 - I

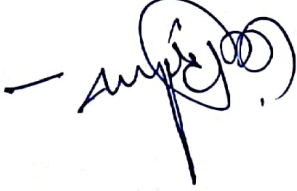
Academic Year: 2022-2023


Admission	Appeared	Absent	Choice Base Credit Pattern 2019 (Semester) - Cumulative Grade Point Average (CGPA)									Pass Students %	Rank of the students
			Grade	F	D	C	B	B+	A	A+	O		
			CGPA	0.00-3.99	4.00-4.49	4.50-5.49	5.50-5.99	6.00-6.99	7.00-7.99	8.00-8.99	9.00-10.00		
			Marks	00-39	40-44	45-49	50-54	55-59	60-74	75-89	90-100		
29	29	02	–	06	--	02	03	04	09	03	--	21 Students 77.78 %	1. Bhagat Akshata Subhash (78) 2. Badhe Rutuja Rajaram (77) 3. Rasal Tejasvini Suresh (74)
Class: T Y B COM. Semester: 6th Course: (365-E) Cost & Works Accounting – Paper 2 (Internship)													
29	29	--	---	01	--	--	--	03	11	09	05	28 Students 96.55 %	1. Bhagat Akshata Subhash (98) 2. Shinde Vaishnvi Sanjay (97) 3. Bhagat Akanksha Datta. (96)

Class	Name of Students	Semester 5 th	Semester 6 th	Obtained / Out of Marks	Percentage	Rank
OVER ALL RESULT OF THE CLASS	Bhagat Akshata Subhash	78	98	176 / 200	88.00 %	1 st
	Bhagat Akanksha Dattatraya	73	95	168 / 200	84.00 %	2 nd
	Shinde Vaishnvi Sanjay	68	97	165 / 200	82.50 %	3 rd

Date : 28th July 2023

Place : Vinzar, Velha (Pune)


Subject's Teacher (Dr. Vijay B. Kadam)


Principal (Dr. Sanjeev S. Late)

Principal

**Amruteshwar Arts, Commerce & Scienc.
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RESULT SUMMARY – UNIVERSITY SEMESTER EXAMINATION

Faculty: COMMERCE

Name of Subject's Teacher: DR. VIJAY BAPU KADAM

Class: T Y B COM.

Semester: 5th

Course: (355-H) Marketing Management – Paper 2 - I

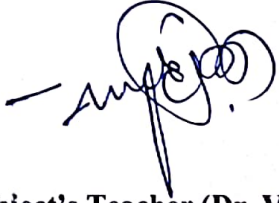
Academic Year: 2022-2023

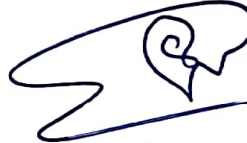
Admission	Appeared	Absent	Choice Base Credit Pattern 2019 (Semester) - Cumulative Grade Point Average (CGPA)									Pass Students %	Rank of the students
			Grade	F	D	C	B	B+	A	A+	O		
			CGPA	0.00-3.99	4.00-4.49	4.50-5.49	5.50+5.99	6.00-6.99	7.00-7.99	8.00-8.99	9.00-10.00		
			Marks	00-39	40-44	45-49	50-54	55-59	60-74	75-89	90-100		
15	15	--	---	--	--	--	--	--	10	04	01	15 Students 100 %	1. Bhikule Supriya Balu (81) 2. Jugdhar Rutuja Sandip (76) 3. Daswadkar Ashwini K. (73)
Class: T Y B COM. Semester: 6 th Course: (365-H) Marketing Management – Paper 2 (Internship)													
15	14	01	---	--	--	--	--	--	12	02	--	14 Students 100 %	1. Bhikule Supriya Balu (92) 2. Veer Ekant Balasaheb (87) 3. Thite Bharti Dilip (84)

Class	Name of Students	Semester 5 th	Semester 6 th	Obtained / Out of Marks	Percentage	Rank
OVER ALL RESULT OF THE CLASS	Bhikule Supriya Balu	81	92	173 / 200	86.50 %	1 st
	Veer Ekant Balasaheb	72	87	159 / 200	79.50 %	2 nd
	Thite Bharti Dilip	66	84	150 / 200	75.00 %	3 rd

Date : 28th July 2023

Place : Vinzar, Velha (Pune)


 Subject's Teacher (Dr. Vijay B. Kadam)


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SAMAJ SHIKSHAN MANDL

AMRUTESHWAR ARTS, COMMERCE & SCIENCE COLLEGE, VINZAR

At Post – Vinzar, TAL. - VELHE, DIST. – PUNE

Internal Quality Assurance Cell

SUGGESTION BOX