

ARTS AND COMMERCE COLLEGE

Warvat Bakal Dist- Buldana

Dr. Rajendra Korde
Principal

Shri Krushnarao Ingle (Ex MLA)
President

Phone : 07266-237126

visit us at : www.acscwb.co.in

Email : 327accwb@gmail.com

Criterion 6- Governance, Leadership and Management

6.5 Internal Quality Assurance System

6.5.3 Quality assurance initiatives of the institution include

Metric No.	Sr. No.	Content / File Description
6.5.3	A	IQAC Meetings
	B	Feedback
	C	Collaborative Quality Initiatives
	D	Quality Audits

CERTIFICATE

This is to certify that the documents attached as supporting documents for Criterion 6- Governance, Leadership and Management are verified from the college record and found to be correct to the best of my knowledge.




Principal
Arts & Commerce College,
Warvat Bakal Dist. Buldana

ARTS AND COMMERCE COLLEGE

Warvat Bakal Dist- Buldana

(NAAC ACCREDITED WITH 'B' GRADE : CGPA 2.27)

Dr. Jagannath Chaudhari
Principal

Shri Krushnarao Ingle (Ex MLA)
President

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MINUTES OF THE 26th MEETING OF INTERNAL QUALITY ASSURANCE CELL (IQAC)

Date: 9th October, 2021

Time: 01.00 p.m.

Venue : IQAC

Members Present:

1. Dr. Jagannath Chaudhari, Chairman, IQAC
2. Dr. Swatitai Wakekar, Management Representative
3. Mr. Rajendra Korde, Teacher Representative
4. Mr. Sunil Makode, Teacher Representative
5. Dr. Sanjay Tale, Teacher Representative
6. Dr. Megha Solanke Teacher Representative
7. Mr. Ajay Chopade, Administrative Representative
8. Mr. Vijay Samadhan Gaigol, (Representative from Industry & Commerce)
9. Mr. Pankaj Tayade (Alumni Representative)
10. Ku. Nanda Vitthal Dabre (Students' Representative)
11. Mr. Nishigandh Satav, Co-ordinator, IQAC

Agenda 1/26: Approval to the Minutes of 25th Meeting of Internal Quality Assurance Cell held on 7th June, 2021.

Resolution 1/26: Mr. N.P. Satav, Coordinator, IQAC presented the minutes of the IQAC Meeting held on 07/06/2021 which were unanimously approved.

Agenda 2/26: Regarding the co-curricular and extra - curricular activities to be organised –

Resolution 2/26: In order to focus on the student-centric development, it was thoroughly discussed to organize the various co-curricular and extra-curricular activities during the session 2021-22. So, it was resolved to carry out the events by each department.

Agenda 3/26: Discussion on organizing a special program on the occasion of Birthday of Hon'ble Chairman Shri. Krushnarao Ingle..

Resolution 3/26: Since the last March 2020 all the offline events were ceased because of Corona Pandemic. But as the Pandemic was subsided, there came the normal situation. So it was

unanimously decided to organize a special event of Blankets Distribution to the needy Adivasis living at the feet of Satpuda Ranges on the occasion of Birthday of Shri Krushnarao Ingle (Chairman).

Agenda 4/26: Creating awareness regarding offline exams among the students.

Resolution 4/26: As the college activities were started offline after Corona Pandemic, it became necessary to create awareness among the students regarding offline examinations of the University. So it was directed by the chairman of IQAC to look after the students' Academic Progress.

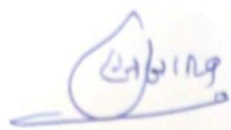
Agenda 5/26: Developing the new website for college.

Resolution 5/26: In order to give wide publicity to the college and its activities, website plays a very important role. Due to some technical issues the present website is not working properly. So it was unanimously resolved to develop new dynamic website so as to carry out the online business effectively.

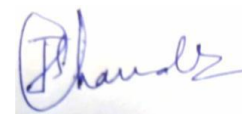
Agenda 6/26: Subjects with prior permission of Chairman.

Resolution 6/26: There being no issue to discuss and being no business at hand, the meeting was adjourned.

Prepared and circulated by –



Mr. Nishigandh Satav
Co-ordinator, IQAC



Dr. Jagannath Chaudhari
Chairman, IQAC

ARTS AND COMMERCE COLLEGE

Warvat Bakal Dist- Buldana

(NAAC ACCREDITED WITH 'B' GRADE : CGPA 2.27)

Dr. Jagannath Chaudhari
Principal

Shri Krushnarao Ingle (Ex MLA)
President

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MINUTES OF THE 27th MEETING OF INTERNAL QUALITY ASSURANCE CELL (IQAC)

Date: 23rd April, 2022

Time: 02.00 p.m.

Venue : IQAC

Members Present:

1. Dr. Jagannath Chaudhari, Chairman, IQAC
2. Dr. Swatitai Wakekar, Management Representative
3. Mr. Rajendra Korde, Teacher Representative
4. Mr. Sunil Makode, Teacher Representative
5. Dr. Sanjay Tale, Teacher Representative
6. Dr. Megha Solanke Teacher Representative
7. Mr. Ajay Chopade, Administrative Representative
8. Mr. Vijay Samadhan Gaigol, (Representative from Industry & Commerce)
9. Mr. Pankaj Tayade (Alumni Representative)
10. Ku. Nanda Vitthal Dabre (Students' Representative)
11. Mr. Nishigandh Satav, Co-ordinator, IQAC

Agenda 1/27: Approval to the Minutes of 26th Meeting of Internal Quality Assurance Cell held on 9th October, 2021.

Resolution 1/27: Mr. N.P. Satav, Coordinator, IQAC presented the minutes of the IQAC Meeting held on 09/10/2021 which were unanimously approved.

Agenda 2/27: Review of the Academic, Co-curricular and Extension Activities organized by college during the year –

Resolution 2/27: It was resolved in the previous IQAC Meeting on 9th October, 2021 to plan and organize the different offline activities during the session. So the house discussed on the events organized by different cells and departments. The house expressed satisfaction on 'Blanket Distribution' and 'Creating Awareness among Farmeres regarding the excess use of Fertilizers'. These two extension activities were carried out by the college unit successfully. It was unanimously resolved to broaden the scope of extension activities in the succeeding session.

Agenda 3/27: Discussion on submitting the proposal regarding PG courses in the college.

Resolution 3/27: In order to cater the need of Higher Education to the students, the Hon'ble Management intends to start the PG courses at college. So it was thoroughly discussed regarding the feasibility of PG courses. It was unanimously decided to start M.Sc., M.Com. and M.A. from the coming session.

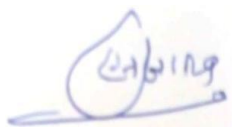
Agenda 4/27: Preparation of AQAR 2021-22

Resolution 4/27: As the academic session 2021-22 is about to end, it was discussed and directed to the concerned Criterion wise committees to collect the required data for the AQAR 2021-22 and prepare it as soon as possible.

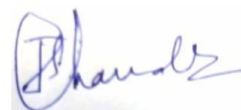
Agenda 5/27: Subjects with prior permission of Chairman.

Resolution 5/27: There being no issue to discuss and being no business at hand, the meeting was adjourned.

Prepared and circulated by –



Mr. Nishigandh Satav
Co-ordinator, IQAC

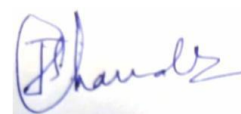


Dr. Jagannath Chaudhari
Chairman, IQAC

ARTS & COMMERCE COLLEGE, WARVAT BAKAL, DIST- BULDANA
Internal Quality Assurance Cell (2021-22)

Action Taken Report (2021-22)
(Against the Decisions taken in the Meetings of the IQAC)

Minutes of the 26th Meeting : 09/10/2021	Action Taken
<p>Discussion the co-curricular and extra - curricular activities to be organised Decision: After discussion, it was unanimously decided to organize good number of extension activities.</p>	<p>A good number of co-curricular and extra-curricular activities were organized by the departments in college.</p>
<p>Discussion on organizing a special program on the occasion of Birthday of Hon'ble Chairman Shri. Krushnarao Ingle. Decision: It was decided to plan and implement the quality program on the occasion of Birthday of Shri. Krushnarao Ingle.</p>	<p>On 21st January, 2022, 72 Adivasi people were distributed the Blankets. This event was well appreciated by the Hon'ble Management and the people present on this occasion.</p>
<p>Discussion on Creating awareness regarding offline exams among the students. Decision: The House unanimously resolved to organize the sessions for the students to create awareness regarding offline examination.</p>	<p>At the departmental level, different sessions were organized at class level regarding the conduct of offline examination.</p>

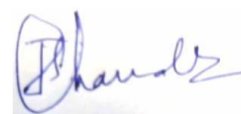


Dr. Jagannath Chaudhari
Chairman, IQAC

ARTS & COMMERCE COLLEGE, WARVAT BAKAL, DIST- BULDANA
Internal Quality Assurance Cell (2021-22)

Action Taken Report (2021-22)
(Against the Decisions taken in the Meetings of the IQAC)

Minutes of the 27th Meeting : 23/04/2022	Action Taken
<p>Review of the Academic, Co-curricular and Extension Activities organized by college during the year Decision: After discussion, it was found that the activities organized in college were good enough to motivate the stakeholders.</p>	<p>A good number of Academic, co-curricular and extension activities were organized by the departments in college.</p>
<p>Discussion on submitting the proposal regarding PG courses in the college. Decision: It was thoroughly discussed regarding the feasibility of PG courses. It was unanimously decided to start M.Sc., M.Com. and M.A. from the coming session.</p>	<p>The proposal of PG courses was submitted to the University</p>
<p>Discussion on Preparation of AQAR 2021-22. Decision: It was discussed and directed to the concerned Criterion wise committees to collect the required data for the AQAR 2021-22 and prepare it as soon as possible.</p>	<p>The criterion wise committees started collecting the required data and the process of preparing AQAR 2021-22 was commenced.</p>



Dr. Jagannath Chaudhari
Chairman, IQAC

Feedback System

Feedback Report & Analysis

Session-2021-2022

25

Satpuda Education Society, Jalgoan (Jamod)'s
ARTS & COMMERCE COLLEGE WARVAT BAKAL
STUDENTS' FEEDBACK ON TEACHERS (ART DEPARTMENT)

Name: Ah. Ket. Suresh Adhao
 Class: B. A. I. Semester: II Year: 2021-2022

You are hereby instructed to rate each statement in the following questionnaire against each lecturer's name column, by using a 4-point scale rating as shown below in the table. You need not disclose your name if you do not wish to.

याद्वारे तुम्हाला निर्देश देण्यात आले आहेत की खाली तखत्या मध्ये दर्शविल्याप्रमाणे 4-पॉइंट स्केल रेटिंगचा वापर करून कॉलेजमध्ये वसूल केलेल्या प्रत्येक व्याख्यात्याच्या नावाच्या कॉलेजमध्ये खालील प्रश्नावलीतील प्रत्येक विधानाच्या समोर तुम्हाला मूल्यांकन करायचे आहे. तुमची इच्छा नसेल तर तुमचे नाव उघड करण्याची गरज नाही.

Scale Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Scale Rating	5	4	3	2	1

DR. RAJENDRA SHRIDHAMPANT KORDE: RSK
 DR. SUBHASH RAMCHANDRA GURJAR: SRG
 ANAND UDEBHAN DHUNDALE: AUD

DR. SUBHASH SHANKARRAO PAWAR: SSP
 DR. NISHIGANDHI P. SATAV: NPS

Student Feedback Questionnaire					
Statement	RSK	SRG	AUD	SSP	NPS
The teacher comes on time for the lecture and engage his lecture regularly.	4	4	4	4	4
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4	4	3	4	4
The teachers communicate effectively with the students and provide counseling, if necessary, in our difficult times and motivate us to study further.	2	4	3	4	4
The teacher encourages students for asking question, discussion, and classroom participation	5	5	5	4	5
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	4	4	4	4	5
Sincerity and social commitment of our teacher is very good	4	3	4	4	5
The teacher uses ICT tools (LCD projector, multimedia, email etc.	4	4	4	4	5
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4	4	4	5	5
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	3	4	4	4	4
Overall rating of the teacher	5	3	3	5	5

Date:

Signature

A. S. Adhao

Satpuda Education Society, Jalgoan (Jamod)'s

ARTS & COMMERCE COLLEGE WARVAT BAKAL

STUDENTS' FEEDBACK ON OVERALL TEACHING AND LEARNING ENVIRONMENT

Name: Shrikrushn Suresh Rajurkar

Class: B.COM II Semester: IV Year: 21-22

Department: Commerce Programme: -

Dear Students,

This form has been designed to seek feedback from you to strengthen the quality of teaching-learning environment, to provide best possible facilities and modern infrastructure. The information provided by you will be kept confidential.

Direction: For each of item please indicate your level of agreement with the following statements by selecting appropriate option as stated in below table.

Scale Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Scale Rating	5	4	3	2	1

हा अभिप्राय अध्यापन-शैक्षणिक वातावरणाचा दर्जा मजबूत करण्यासाठी, शक्य तितक्या चांगल्या सुविधा आणि आधुनिक पायाभूत सुविधा उपलब्ध करून देण्यासाठी तुमच्याकडून अभिप्राय मागण्यासाठी तयार करण्यात आला आहे. तुम्ही दिलेली माहिती गोपनीय ठेवली जाईल. दिशा: प्रत्येक विधानासाठी कृपया योग्य पर्याय गुणांसह खूप चांगला = 4, चांगले = 3, समाधानकारक = 2, असमाधानकारक = 1 निवडून खालील विधानांसह आपल्या अभिप्राय नोंदवा.

STUDENTS' FEEDBACK ON OVERALL TEACHING AND LEARNING ENVIRONMENT					
Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
The office staff in college is cooperative and helpful		4			
The library staff in college is cooperative and helpful		4			
Online educational resources are available and usable by students		4			
Internet facility provided in the college library is satisfactory	5	5			
The prescribed books / reading materials are available in the library		4			

S.S. RAJURKAR

(1)

Satpuda Education Society, Jalgoan (Jamod)'s
ARTS & COMMERCE COLLEGE WARVAT BAKAL
STUDENTS' FEEDBACK ON TEACHERS (ART DEPARTMENT)

Name: Ajay Manohar Azdale
 Class: B.A.I Semester: II Year: 2021-2022

You are hereby instructed to rate each statement in the following questionnaire against each lecturer's name column, by using a 4-point scale rating as shown below in the table. You need not disclose your name if you do not wish to.

याद्वारे तुम्हाला निर्देश देण्यात आले आहेत की खाली लहख्या मध्ये प्रत्येक विधानाप्रमाणे 4-पॉइंट स्केल रेटिंगचा वापर करून कॉलममध्ये नमूद केलेल्या प्रत्येक व्याख्यात्याच्या नावाच्या कॉलममध्ये खालील प्रश्नावलीतील प्रत्येक विधानाच्या समोर तुम्हाला मूल्यांकन करायचे आहे. तुमची इच्छा नसेल तर तुमचे नाव उघड करण्याची गरज नाही.

Scale Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Scale Rating	5	4	3	2	1

DR. RAJENDRA SHIRKAMPANT KORDE: RSK
 DR. SUBHASH RAMCHANDRA GURJAR: SRG
 ANAND UDESHAN DHUNDALE: AUD

DR. SUBHASH SHANKARRAO PAWAR: SSP
 DR. NISHIGANDHI P. SATAV: NPS

Student Feedback Questionnaire					
Statement	RSK	SRG	AUD	SSP	NPS
The teacher comes on time for the lecture and engage his lecture regularly.	4	5	5	5	5
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	5	4	5	4	5
The teachers communicate effectively with the students and provide counseling, if necessary, in our difficult times and motivate us to study further.	4	5	5	4	5
The teacher encourages students for asking question, discussion, and classroom participation	5	4	5	5	5
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	5	5	4	5	5
Sincerity and social commitment of our teacher is very good	4	5	5	5	5
The teacher uses ICT tools (LCD projector, multimedia, email etc;	4	5	4	5	5
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4	5	5	5	4
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	5	5	4	3	5
Overall rating of the teacher	5	5	4	5	5

Date:

A.M. Azdale
 Signature

Satpuda Education Society, Jalgoan (Jamod)'s
ARTS & COMMERCE COLLEGE WARVAT BAKAL
STUDENTS' FEEDBACK ON TEACHERS (COMPUTER DEPARTMENT)

Name: Manojkumar Roshikesh Ganesh

Class: B.Sc. III

Semester: VI

Year: 2021-22

You are hereby instructed to rate each statement in the following questionnaire against each lecturer's name column, by using a 4-point scale rating as shown below in the table. You need not disclose your name if you do not wish to.

Scale Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Scale Rating	5	4	3	2	1

याद्वारे तुम्हाला निदेश देण्यात आले आहेत की खाली तळल्या मध्ये दर्शविल्याप्रमाणे 4-पॉइंट स्केल रेटिंगचा वापर करून कोणत्याही नमुद केलेल्या प्रत्येक व्याख्यात्याच्या नावाच्या कॉलममध्ये खालील प्रश्नावलीतील प्रत्येक विधानाच्या समोर तुम्हाला सूच्यमान करावचे आहे. तुमची हक्का नसेल तर तुमचे नाव उघड करण्याची गरज नाही.

MR. DEEPAK K. CHACHE - DBC

Student Feedback Questionnaire	
Statement	DBC
The teacher comes on time for the lecture and engage his lecture regularly.	5
The teacher prepares well for the classes and demonstrates subject command.	4
The teachers communicate effectively with the students and provide counseling, if necessary, in our difficult times and motivate us to study further.	5
The teacher encourages students for asking question, discussion, and classroom participation	5
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	5
Sincerity and social commitment of our teacher is very good	4
The teacher uses ICT tools (LCD projector, multimedia, email etc;	4
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	5
Overall rating of the teacher	5

Date: 4.5.2022

Roshikesh M
Signature

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Satpuda Education Society, Jalgoan (Jamod)'s
ARTS & COMMERCE COLLEGE WARVAT BAKAL
STUDENTS' FEEDBACK ON TEACHERS (COMMERCE DEPARTMENT)

Name: Vaishnavi Bhagavanta Khond.
 Class: B.com II Semester: IV Year: 24-25

You are hereby instructed to rate each statement in the following questionnaire against each lecturer's name column, by using a 4-point scale rating as shown below in the table. You need not disclose your name if you do not wish to.

याद्वारे तुम्हाला निर्देश देण्यात आले आहेत की खाली तक्त्या मध्ये दर्शविल्याप्रमाणे 4-पॉइंट स्केल रेटिंगचा वापर करून कॉलममध्ये नमूद केलेल्या प्रत्येक व्याख्यात्याच्या नावाच्या कॉलममध्ये खालील प्रभावशालीत प्रत्येक विधानाच्या समोर तुम्हाला मूल्यांकन करायचे आहे. तुमची इच्छा नसेल तर तुमचे नाव उघड करण्याची गरज नाही.

Scale Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Scale Rating	5	4	3	2	1

DR. SATISH W RANE: SWR
 SURESH R BHATALAK: SRB
 ANAND UDEBHAN DHUNDALE: AUD

DR. SANJAY JAGDEORAO TALE: SJT
 NAGESH W INGLE : NWT

Student Feedback Questionnaire				
Statement	SWR	SJT	SRB	NWT
The teacher comes on time for the lecture and engage his lecture regularly.	5	4	4	5
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4	5	4	5
The teachers communicate effectively with the students and provide counseling, if necessary, in our difficult times and motivate us to study further.	5	4	5	4
The teacher encourages students for asking question, discussion, and classroom participation	4	4	4	4
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	5	4	5	5
Sincerity and social commitment of our teacher is very good	5	5	5	5
The teacher uses ICT tools (LCD projector, multimedia, email etc;	3	4	4	4
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4	4	5	5
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	5	4	4	4
Overall rating of the teacher	4	4	4	4

[Signature]

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Satpuda Education Society, Jalgoan (Jamod)'s
ARTS & COMMERCE COLLEGE WARVAT BAKAL
STUDENTS' FEEDBACK ON TEACHERS (COMPUTER DEPARTMENT)

Name: Agarkar Payal Santosh

Class: B.Sc-III Semester: VI Year: 2021-22

You are hereby instructed to rate each statement in the following questionnaire against each lecturer's name column, by using a 4-point scale rating as shown below in the table. You need not disclose your name if you do not wish to.

Scale Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Scale Rating	5	4	3	2	1

याद्वारे तुम्हाला निर्देश देण्यात आले आहेत की खाली तखत्या मध्ये दर्शविल्याप्रमाणे 4-पॉइंट स्केल रेटिंगचा वापर करून कॉलेजमध्ये नमूद केलेल्या प्रत्येक व्याख्यात्याच्या नावाच्या कॉलममध्ये खालील प्रभावलीतील प्रत्येक विधानाच्या समोर तुम्हाला मूल्यांकन करायचे आहे. तुमची इच्छा नसेल तर तुमचे नाव उघड करण्याची गरज नाही.

MR. DEEPAK B CHAUBE: DBC

Student Feedback Questionnaire	
Statement	DBC
The teacher comes on time for the lecture and engage his lecture regularly.	5
The teacher prepares well for the classes and demonstrates subject command.	4
The teachers communicate effectively with the students and provide counseling, if necessary, in our difficult times and motivate us to study further.	5
The teacher encourages students for asking question, discussion, and classroom participation	5
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	5
Sincerity and social commitment of our teacher is very good	4
The teacher uses ICT tools (LCD projector, multimedia, email etc;	4
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	5
Overall rating of the teacher	4

Date: 5.5.2022

payal agarkar
Signature

(16)

Satpuda Education Society, Jalgoan (Jamod)'s
ARTS & COMMERCE COLLEGE WARVAT BAKAL
STUDENTS' FEEDBACK ON TEACHERS (PHYSICS DEPARTMENT)

Name: Dhunda Rohan Pralhad

Class: B.Sc-III Semester: VI Year: 2021-22

You are hereby instructed to rate each statement in the following questionnaire against each lecturer's name column, by using a 4-point scale rating as shown below in the table. You need not disclose your name if you do not wish to.

Scale Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Scale Rating	5	4	3	2	1

याद्वारे तुम्हाला निर्देश देण्यात आले आहेत की खाली तखत्या मध्ये दर्शविल्याप्रमाणे 4-पॉइंट स्केल रेटिंगचा वापर करून कॉलममध्ये नमूद केलेल्या प्रत्येक व्याख्यात्याच्या नावाच्या कॉलममध्ये खालील प्रभावतीतील प्रत्येक विधानाच्या समोर तुम्हाला मूल्यांकन करायचे आहे. तुमची इच्छा नसेल तर तुमचे नाव उघड करण्याची गरज नाही.

MR. VISHAL R WANKHADE : VRW

Student Feedback Questionnaire	
Statement	VRW
The teacher comes on time for the lecture and engage his lecture regularly.	4
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4
The teachers communicate effectively with the students and provide counseling, if necessary, in our difficult times and motivate us to study further.	5
The teacher encourages students for asking question, discussion, and classroom participation	6
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	5
Sincerity and social commitment of our teacher is very good	4
The teacher uses ICT tools (LCD projector, multimedia, email etc;	5
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	5
Overall rating of the teacher	4

Date: 4.5.2022

Rohan Dhunda
Signature

2

Satpuda Education Society, Jalgaon (Amod)'s
ARTS & COMMERCE COLLEGE WARVAT BAKAL
STUDENTS' FEEDBACK ON TEACHERS (CHEMISTRY DEPARTMENT)

Name: Sakshi Babbar Gore

Class: B.Sc-I Semester: II Year: 2021-22

You are hereby instructed to rate each statement in the following questionnaire against each lecturer's name column, by using a 4-point scale rating as shown below in the table. You need not disclose your name if you do not wish to.

Scale Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Scale Rating	5	4	3	2	1

याद्वारे तुम्हाला निर्देश देण्यात आले आहेत की खाली तक्त्या मध्ये दर्शविल्याप्रमाणे 4-पॉइंट स्केल खेडिंगचा वापर करून कॉलममध्ये नमूद केलेल्या प्रत्येक व्याख्यात्याच्या नावाच्या कॉलममध्ये खालील प्रश्नावलीतील प्रत्येक विधानाच्या समोर तुम्हाला मूल्यंकन करायचे आहे. तुमची इच्छा नसेल तर तुमचे नाव उघड करण्याची गरज नाही.

DR. NITYANAND D. DHAKE: NDD
 MR. KIRAN P. SABLE: KPS

DR. VIJAYANAND D. INGALE: VDI
 MR. NILESH S. SHEKLE: NSS

Student Feedback Questionnaire				
Statement	NDD	VDI	KPS	NSS
The teacher comes on time for the lecture and engage his lecture regularly.	5	5	4	4
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4	4	5	4
The teachers communicate effectively with the students and provide counseling, if necessary, in our difficult times and motivate us to study further.	4	5	5	4
The teacher encourages students for asking question, discussion, and classroom participation	4	4	5	5
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	4	4	4	5
Sincerity and social commitment of our teacher is very good	4	5	5	4
The teacher uses ICT tools (LCD projector, multimedia, email etc;	5	4	5	5
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4	4	5	5
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	5	5	5	5
Overall rating of the teacher	5	5	4	3

Date: 5.5.2022

Sakshi Gore
 Signature

Satpuda Education Society, Jalgaon (Jambodi)'s

ARTS & COMMERCE COLLEGE WARVAT BAKAL

STUDENTS' FEEDBACK ON OVERALL TEACHING AND LEARNING ENVIRONMENT

Name: Ahiket Sunesh Adhao

Class: BA (I) Semester: II Year: 2021 - 2022

Department: Art Programme: _____

Dear Students,

This form has been designed to seek feedback from you to strengthen the quality of teaching- learning environment, to provide best possible facilities and modern infrastructure. The information provided by you will be kept confidential.

Direction: For each of item please indicate your level of agreement with the following statements by selecting appropriate option as stated in below table.

Scale Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Scale Rating	5	4	3	2	1

हा अभिप्राय अध्यापन-शैक्षणिक वातावरणाचा दर्जा मजबूत करण्यासाठी, शक्य तितक्या चांगल्या सुविधा आणि आधुनिक पायाभूत सुविधा उपलब्ध करून देण्यासाठी तुमच्याकडून अभिप्राय मागण्यासाठी तयार करण्यात आला आहे. तुम्ही दिलेली माहिती गोपनीय ठेवली जाईल. टिपण: प्रत्येक विधानासाठी कृपया योग्य पर्याय गुणांसह खूब चांगला - 4, चांगले - 3, समाधानकारक -2, असमाधानकारक -1 निवडून खालील विधानांसह आपल्या अभिप्राय नोंदवा.

STUDENTS' FEEDBACK ON OVERALL TEACHING AND LEARNING ENVIRONMENT					
Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
The office staff in college is cooperative and helpful	5				
The library staff in college is cooperative and helpful	5				
Online educational resources are available and usable by students	5				
Internet facility provided in the college library is satisfactory	5				
The prescribed books / reading materials are available in the library	5				

A. S. Adhao

Satpuda Education Society, Jalgoan (Jamod)'s
ARTS & COMMERCE COLLEGE WARVAT BAKAL
STUDENTS' FEEDBACK ON TEACHERS (CHEMISTRY DEPARTMENT)

Name: Tushar Gopel patil

Class: B.Sc-II Semester: III Year: 2021-22

You are hereby instructed to rate each statement in the following questionnaire against each lecturer's name column, by using a 4-point scale rating as shown below in the table. You need not disclose your name if you do not wish to.

Scale Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Scale Rating	5	4	3	2	1

याद्वारे तुम्हाला निर्देश देण्यात आले आहेत की खाली तखत्या मध्ये दर्शविल्याप्रमाणे 4-पॉइंट स्केल रेटिंगचा वापर करून कॉलममध्ये नमूद केलेल्या प्रत्येक व्याख्यात्याच्या नावाच्या कॉलममध्ये खालील प्रभावलीतील प्रत्येक विधानाच्या समोर तुम्हाला मूल्यांकन करायचे आहे. तुमची इच्छा नसेल तर तुमचे नाव उघड करण्याची गरज नाही.

DR. NITYANAND D. DHAKE: NDD
MR. KIRAN P. SABLE: KPS

DR. VIJAYANAND D. INGALE: VDI
MR. NILESH S. SHELKE: NSS

Student Feedback Questionnaire				
Statement	NDD	VDI	KPS	NSS
The teacher comes on time for the lecture and engage his lecture regularly.	2	4	5	4
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	2	2	4	4
The teachers communicate effectively with the students and provide counseling, if necessary, in our difficult times and motivate us to study further.	2	2	4	3
The teacher encourages students for asking question, discussion, and classroom participation	3	4	4	5
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	3	4	5	4
Sincerity and social commitment of our teacher is very good	5	4	5	5
The teacher uses ICT tools (LCD projector, multimedia, email etc;	5	4	3	4
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	3	4	3	4
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	3	3	4	5
Overall rating of the teacher	3	3	3	5

Tushar Patil

Chart No.1: Overall Teaching and Learning Environmental Feedback Responses from Students

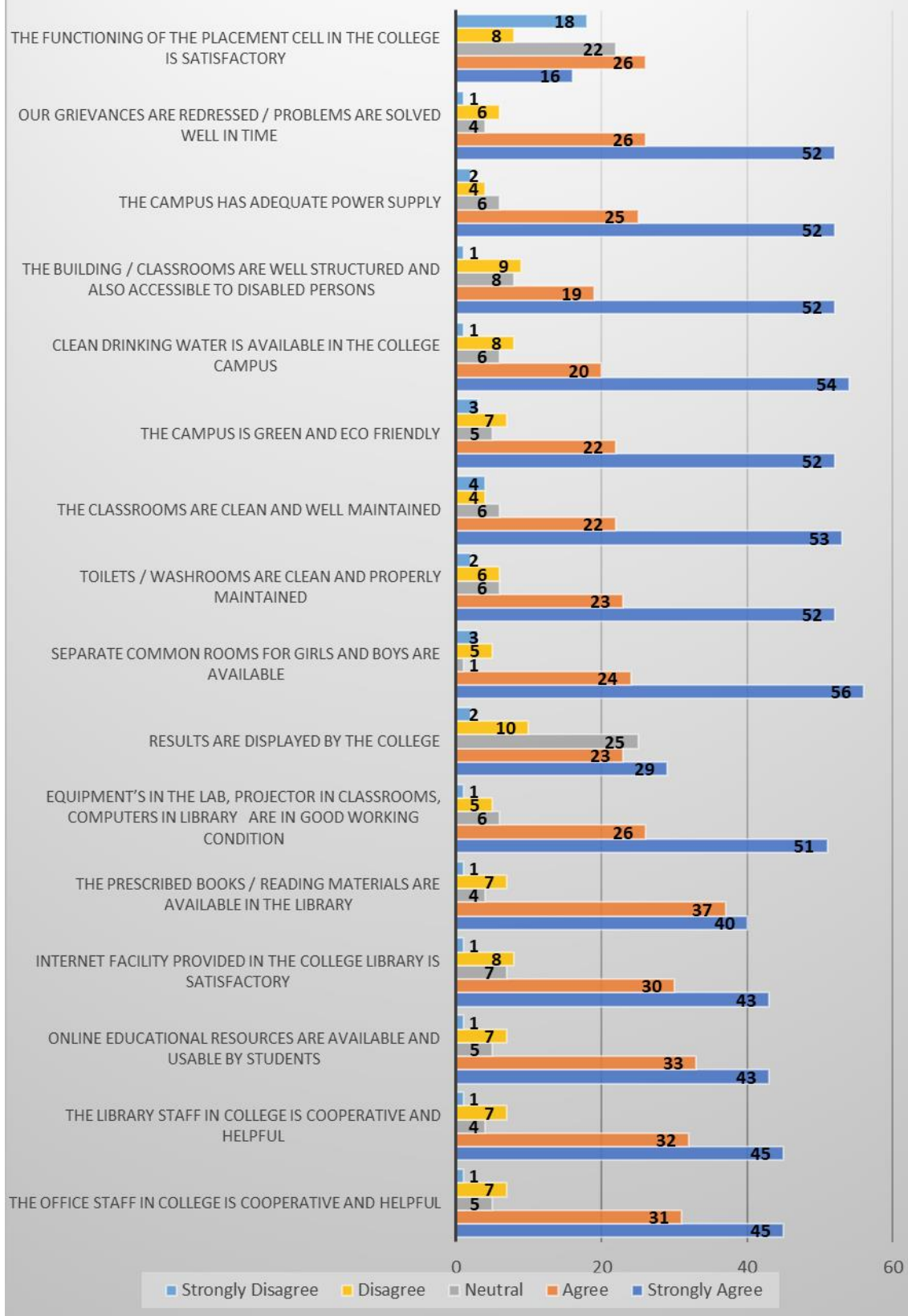


Chart No.2: Mean Score of Overall Teaching and Learning Environmental Feedback Responses from Students

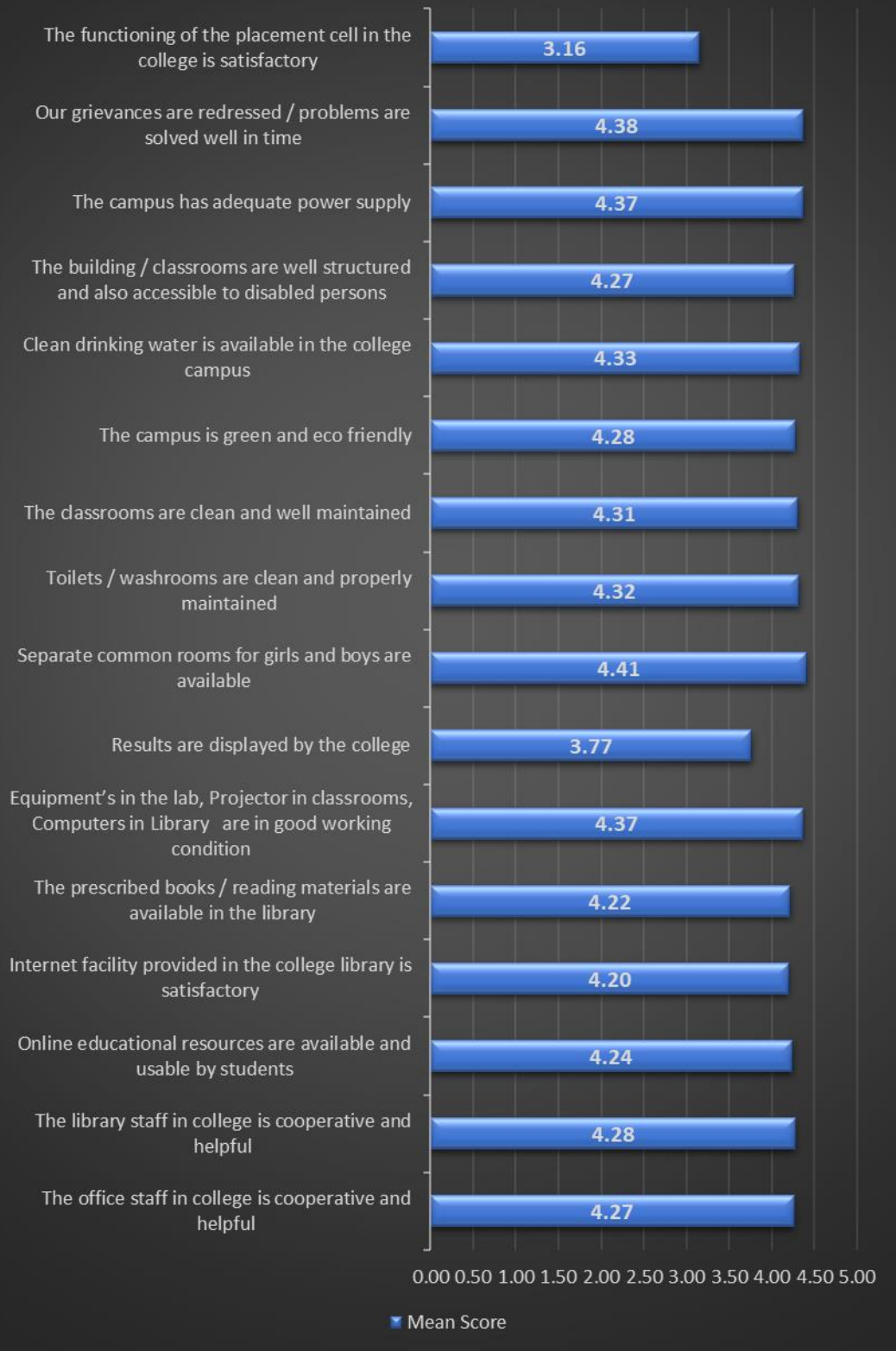


Table No.1: Mean score of Arts and Commerce College student’s responses towards the statements about the teaching-learning environment.

SFF.No.	M.S.	SFF.No.	M.S.	SFF.No.	M.S.
1	4.81	31	1.94	61	4.00
2	4.00	32	5.00	62	4.00
3	4.00	33	5.00	63	4.75
4	4.56	34	2.06	64	4.75
5	4.75	35	3.81	65	4.81
6	4.69	36	4.94	66	1.94
7	4.81	37	1.94	67	2.75
8	3.25	38	4.25	68	1.94
9	4.88	39	4.50	69	4.81
10	4.06	40	4.88	70	4.69
11	4.00	41	4.81	71	4.88
12	1.00	42	4.50	72	4.88
13	4.69	43	4.50	73	4.69
14	4.81	44	4.00	74	4.75
15	4.81	45	4.69	75	4.75
16	4.00	46	4.94	76	4.63
17	2.81	47	4.94	77	4.63
18	3.44	48	4.00	78	4.00
19	3.94	49	3.94	79	4.75
20	4.06	50	4.00	80	4.63
21	2.19	51	4.50	81	4.75
22	4.31	52	4.44	82	4.88
23	3.94	53	3.19	83	4.19
24	4.81	54	4.88	84	4.44
25	4.88	55	4.75	85	4.63
26	3.88	56	4.88	86	4.56
27	2.00	57	3.88	87	4.00
28	3.44	58	3.88	88	4.81
29	4.75	59	4.81	89	4.81
30	4.88	60	4.63	90	4.88
Overall Mean Score of all Students Feedback Form =					4.20

Chart No.3: Mean Score of students feedback responses towards the statements about Art's faculty teachers teaching

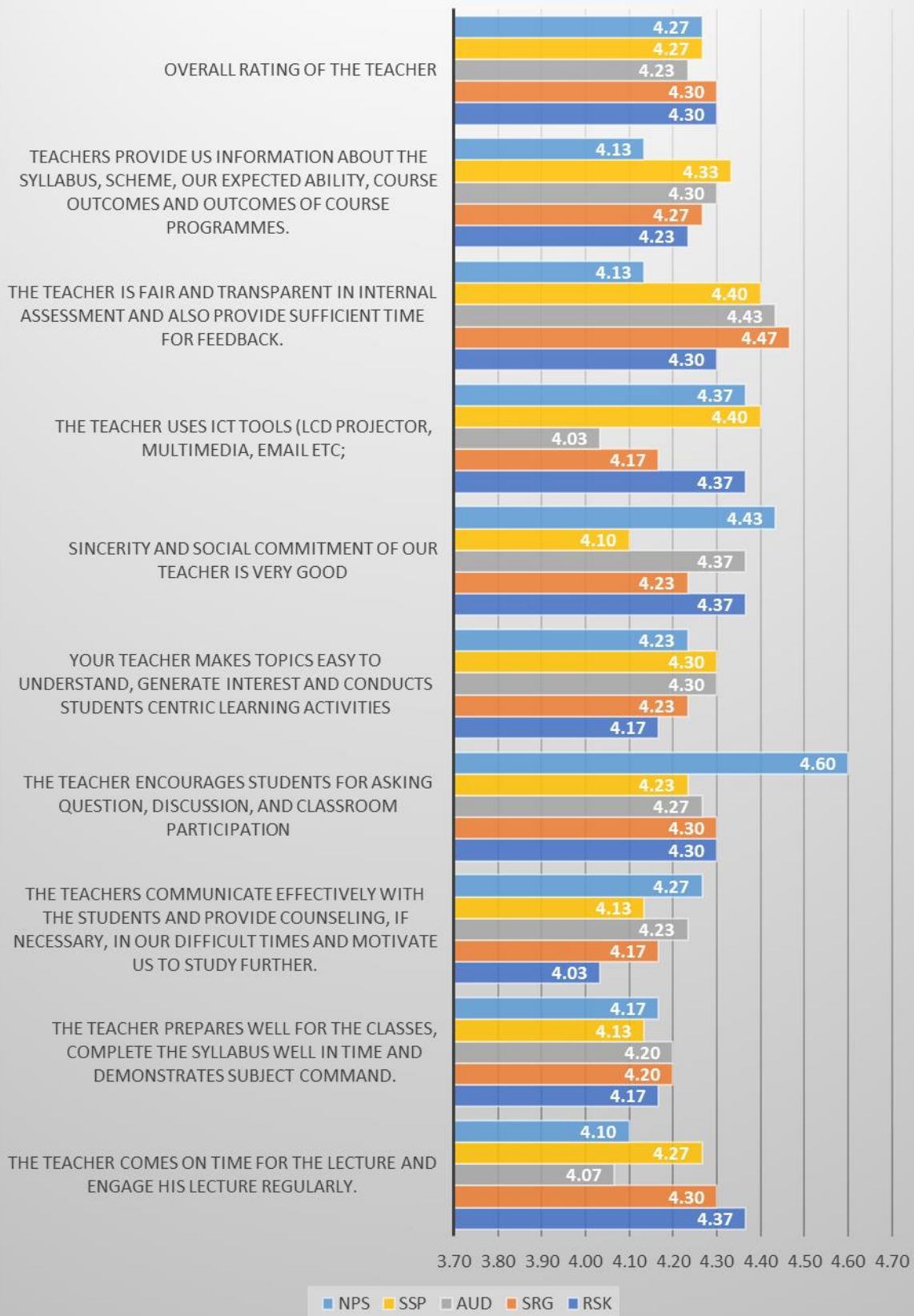
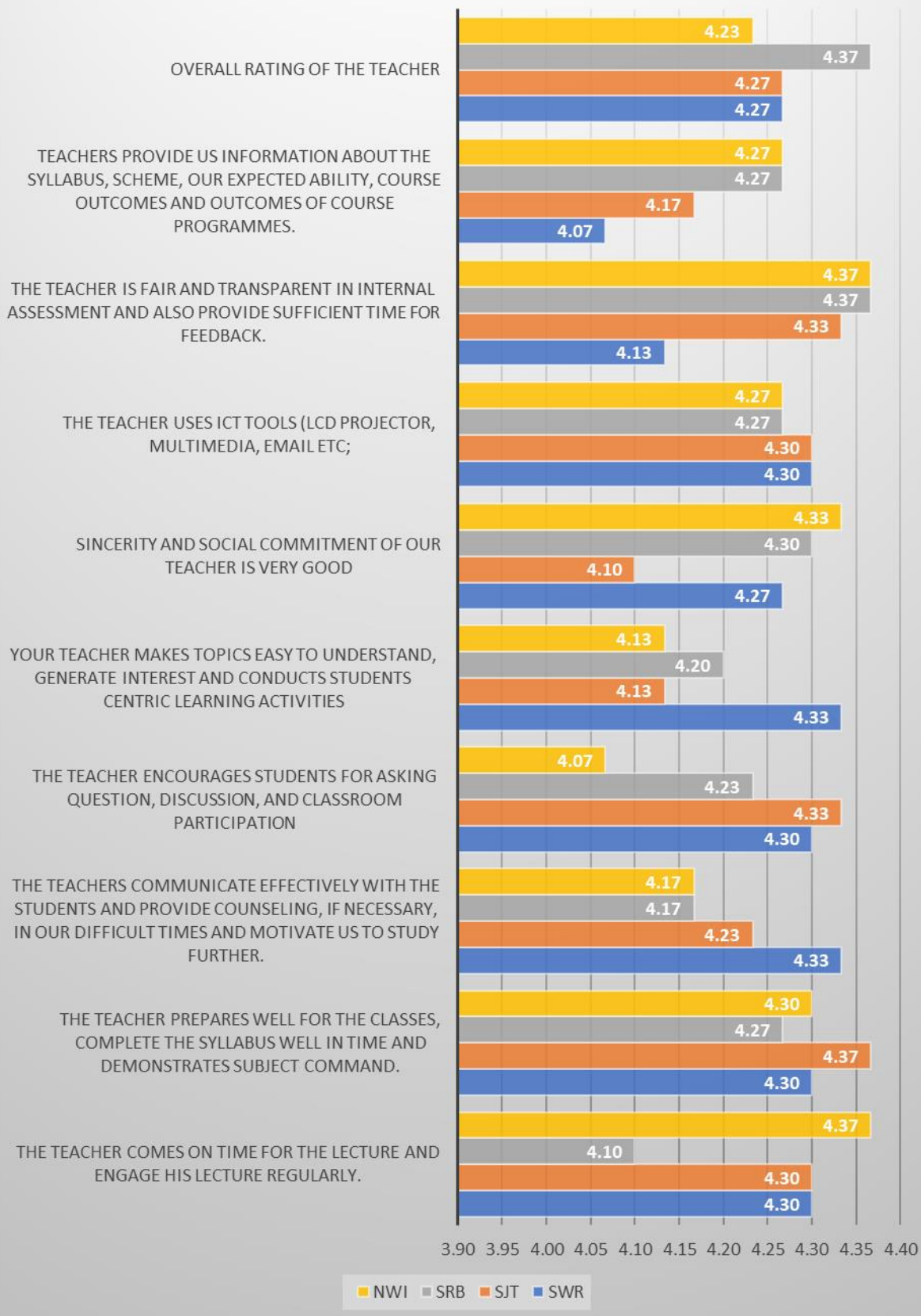


Table No.2: Mean score of student's responses towards the parameters about the Art Department teachers teaching in college

Student Feedback Questionnaire						
Statement	Average Mean	RSK	SRG	AUD	SSP	NPS
The teacher comes on time for the lecture and engage his lecture regularly.	4.22	4.37	4.30	4.07	4.27	4.10
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4.17	4.17	4.20	4.20	4.13	4.17
The teachers communicate effectively with the students and provide counselling, if necessary, in our difficult times and motivate us to study further.	4.17	4.03	4.17	4.23	4.13	4.27
The teacher encourages students for asking question, discussion, and classroom participation	4.34	4.30	4.30	4.27	4.23	4.60
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	4.25	4.17	4.23	4.30	4.30	4.23
Sincerity and social commitment of our teacher is very good	4.30	4.37	4.23	4.37	4.10	4.43
The teacher uses ICT tools (LCD projector, multimedia, email etc;	4.27	4.37	4.17	4.03	4.40	4.37
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4.35	4.30	4.47	4.43	4.40	4.13
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	4.25	4.23	4.27	4.30	4.33	4.13
Overall rating of the teacher	4.27	4.30	4.30	4.23	4.27	4.27

Sr. No.	Name of Teachers	Short Form	Overall Mean Score
1	DR. RAJENDRA SHRIRAMPANT KORDE	RSK	4.26
2	DR. SUBHASH RAMCHANDRA GURJAR	SRG	4.26
3	ANAND UDEBHAN DHUNDALE	AUD	4.24
4	DR. SUBHASH SHANKARRAO PAWAR	SSP	4.26
5	NISHIGANDH PRABHAKAR SATAV	NPS	4.27

Chart No.4: Mean Score of the students feedback towards the statement about Commerce faculty teachers teaching



Commerce Student Feedback Questionnaire					
Statement	Average Mean	SWR	SJT	SRB	NWI
The teacher comes on time for the lecture and engage his lecture regularly.	4.27	4.30	4.30	4.10	4.37
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4.31	4.30	4.37	4.27	4.30

Table No.3: Mean score of commerce student's responses towards the parameters about the Commerce Department teachers teaching in college.

The teachers communicate effectively with the students and provide counselling, if necessary, in our difficult times and motivate us to study further.	4.23	4.33	4.23	4.17	4.17
The teacher encourages students for asking question, discussion, and classroom participation	4.23	4.30	4.33	4.23	4.07
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	4.20	4.33	4.13	4.20	4.13
Sincerity and social commitment of our teacher is very good	4.25	4.27	4.10	4.30	4.33
The teacher uses ICT tools (LCD projector, multimedia, email etc;	4.28	4.30	4.30	4.27	4.27
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4.30	4.13	4.33	4.37	4.37
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	4.19	4.07	4.17	4.27	4.27
Overall rating of the teacher	4.28	4.27	4.27	4.37	4.23

Sr. No.	Name of Teachers	Short Form	Overall Mean Score
1	DR. SATISH WASUDEO RANE	SWR	4.26
2	DR. SANJAY JAGDEORAO TALE	SJT	4.25
3	SUFRESH RAMESH BHALTADAK	SRB	4.25
4	NAGESH WASUDEO INGLE	NWI	4.25

CHART NO.5: MEAN SCORE OF THE STUDENTS FEEDBACK TOWARDS THE STATEMENTS ABOUT THE TEACHERS TEACHING IN CHEMISTRY DEPARTMENT

- The teacher comes on time for the lecture and engage his lecture regularly.
- The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.
- The teachers communicate effectively with the students and provide counseling, if necessary, in our difficult times and motivate us to study further.
- The teacher encourages students for asking question, discussion, and classroom participation
- Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities
- Sincerity and social commitment of our teacher is very good
- The teacher uses ICT tools (LCD projector, multimedia, email etc;
- The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.
- Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.
- Overall rating of the teacher

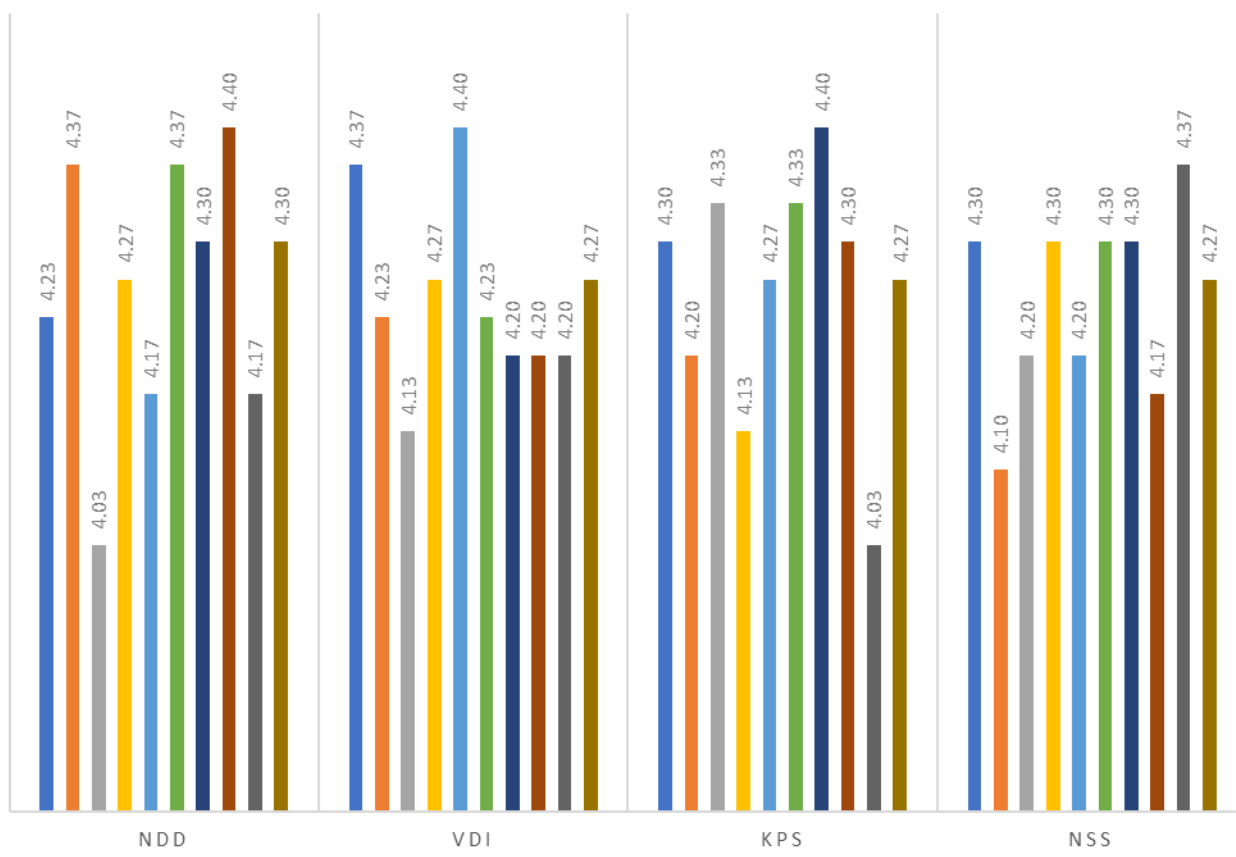


Table No.4: Mean score of student's responses towards the parameters about Chemistry Department teachers teaching in college.

Chemistry Department Student Feedback Questionnaire					
Statement	Average Mean	NDD	VDI	KPS	NSS
The teacher comes on time for the lecture and engage his lecture regularly.	4.30	4.23	4.37	4.30	4.30
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4.23	4.37	4.23	4.20	4.10
The teachers communicate effectively with the students and provide counselling, if necessary, in our difficult times and motivate us to study further.	4.18	4.03	4.13	4.33	4.20
The teacher encourages students for asking question, discussion, and classroom participation	4.24	4.27	4.27	4.13	4.30
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	4.26	4.17	4.40	4.27	4.20
Sincerity and social commitment of our teacher is very good	4.31	4.37	4.23	4.33	4.30
The teacher uses ICT tools (LCD projector, multimedia, email etc;	4.30	4.30	4.20	4.40	4.30
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4.27	4.40	4.20	4.30	4.17
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	4.19	4.17	4.20	4.03	4.37
Overall rating of the teacher	4.28	4.30	4.27	4.27	4.27

Sr. No.	Name of Teachers	Short Form	Overall Mean Score
1	NITYANAND DEVIDAS DHAKE	NDD	4.26
2	DR. VIJAYANAND DNYANDEO INGALE	VDI	4.25
3	KIRAN PRAKASH SABALE	KPS	4.26
4	NILESH SHRIDHAR SHELKE	NSS	4.25

Chart No.6: Mean score of the students feedback responses towards the statement about teachers teaching in Zoology Department

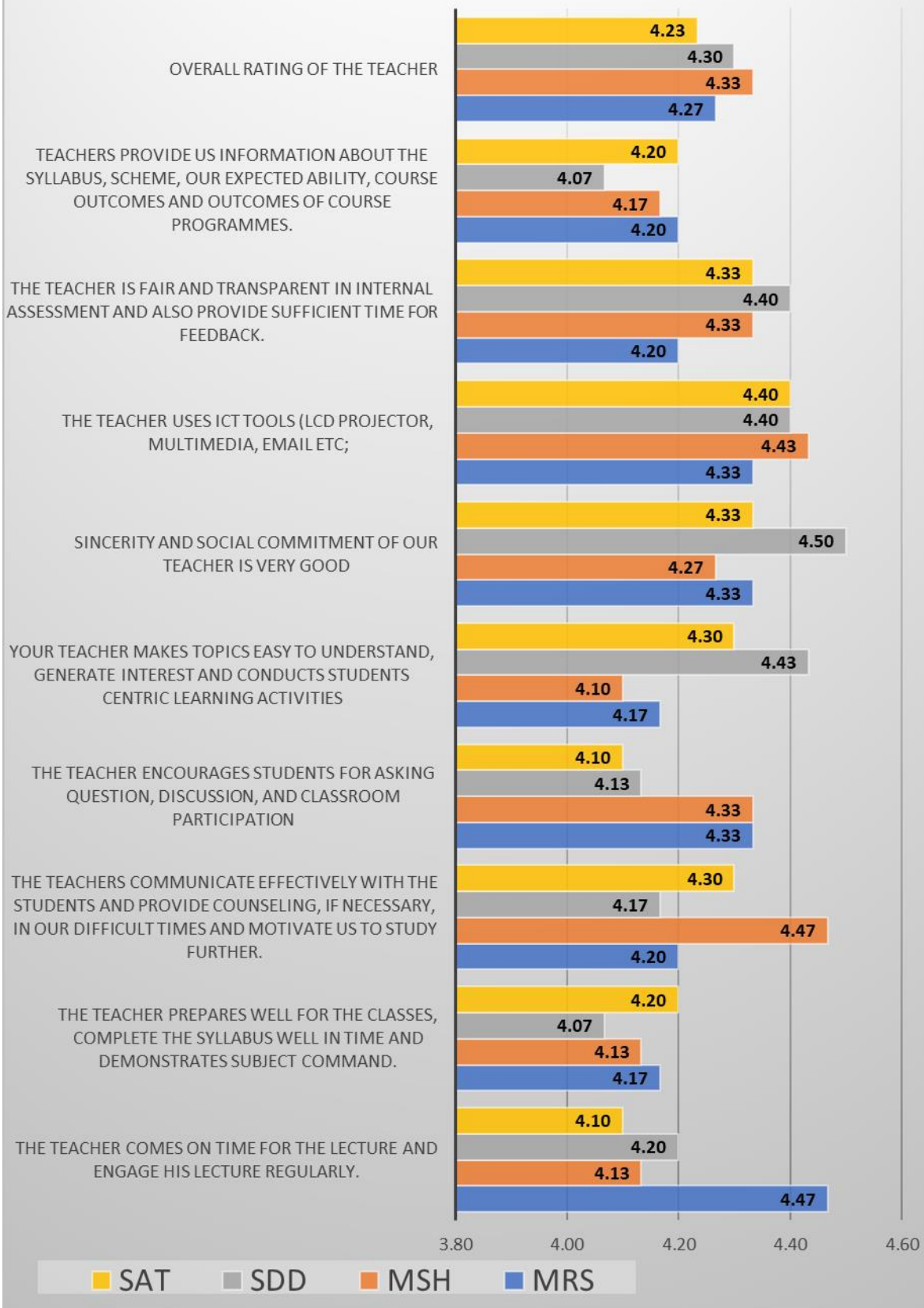


Table No.5: Mean score of student's responses towards the parameters about Zoology Department teachers teaching in college.

Zoology Department Student Feedback Questionnaire					
Statement	Average Mean	MRS	MSH	SDD	SAT
The teacher comes on time for the lecture and engage his lecture regularly.	4.23	4.47	4.13	4.20	4.10
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4.14	4.17	4.13	4.07	4.20
The teachers communicate effectively with the students and provide counselling, if necessary, in our difficult times and motivate us to study further.	4.28	4.20	4.47	4.17	4.30
The teacher encourages students for asking question, discussion, and classroom participation	4.23	4.33	4.33	4.13	4.10
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	4.25	4.17	4.10	4.43	4.30
Sincerity and social commitment of our teacher is very good	4.36	4.33	4.27	4.50	4.33
The teacher uses ICT tools (LCD projector, multimedia, email etc;	4.39	4.33	4.43	4.40	4.40
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4.32	4.20	4.33	4.40	4.33
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	4.16	4.20	4.17	4.07	4.20
Overall rating of the teacher	4.28	4.27	4.33	4.30	4.23

Sr. No.	Name of Teachers	Short Form	Overall Mean Score
1	DR. MEGHA RANJIT SOLANKE	MRS	4.27
2	DR. MADHURI SUDHAKAR HINGANKAR	MSH	4.27
3	SUSHIL DESHMUKH	SDD	4.27
4	SONALI ANIL TAYADE	SAT	4.25

**CHART NO.7: MAEN SCORE OF THE STUDENTS FEEDBACK RESPONSES
TOWARDS THE STATEMENT ABOUT THE TEACHERS TEACHING IN
BOTANY DEPARTMENT**

- The teacher comes on time for the lecture and engage his lecture regularly.
- The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.
- The teachers communicate effectively with the students and provide counseling, if necessary, in our difficult times and motivate us to study further.
- The teacher encourages students for asking question, discussion, and classroom participation
- Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities
- Sincerity and social commitment of our teacher is very good
- The teacher uses ICT tools (LCD projector, multimedia, email etc;
- The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.
- Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.
- Overall rating of the teacher

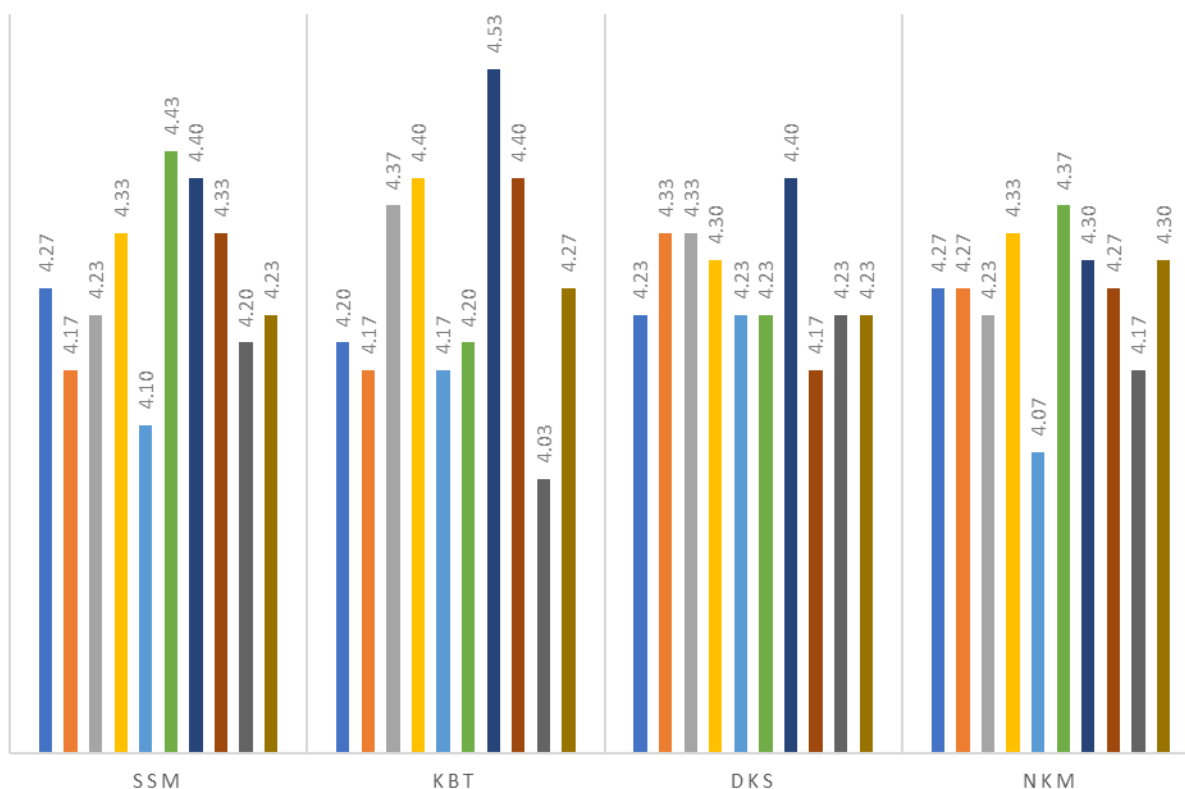
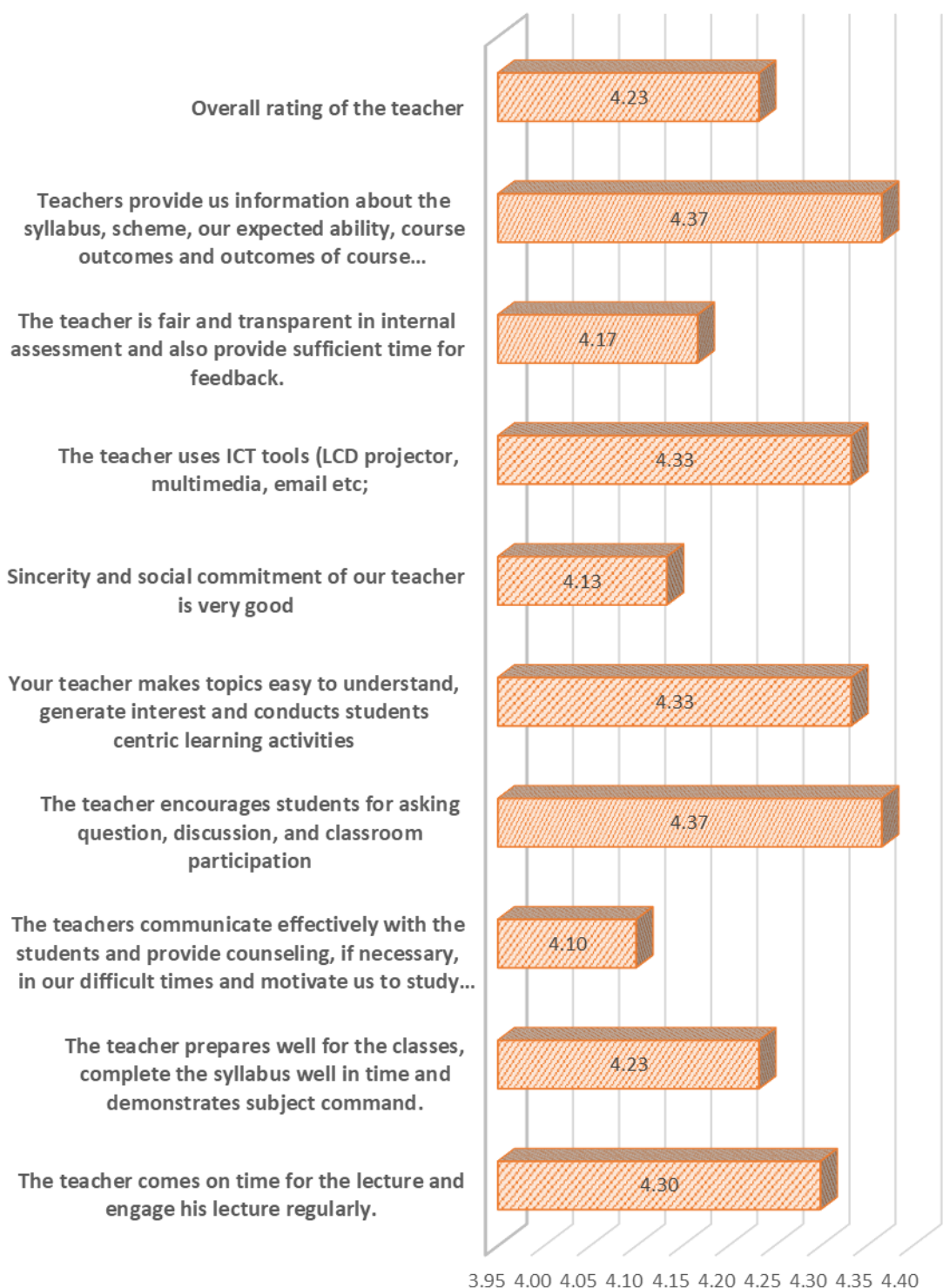


Table No.6: Mean score of student's responses towards the parameters about Botany Department teachers teaching in college

Botany Department Student Feedback Questionnaire					
Statement	Average Mean	SSM	KBT	DKS	NKM
The teacher comes on time for the lecture and engage his lecture regularly.	4.24	4.27	4.20	4.23	4.27
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4.23	4.17	4.17	4.33	4.27
The teachers communicate effectively with the students and provide counselling, if necessary, in our difficult times and motivate us to study further.	4.29	4.23	4.37	4.33	4.23
The teacher encourages students for asking question, discussion, and classroom participation	4.34	4.33	4.40	4.30	4.33
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	4.14	4.10	4.17	4.23	4.07
Sincerity and social commitment of our teacher is very good	4.31	4.43	4.20	4.23	4.37
The teacher uses ICT tools (LCD projector, multimedia, email etc;	4.41	4.40	4.53	4.40	4.30
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4.29	4.33	4.40	4.17	4.27
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	4.16	4.20	4.03	4.23	4.17
Overall rating of the teacher	4.26	4.23	4.27	4.23	4.30

Sr. No.	Name of Teachers	Short Form	Overall Mean Score
1	SANTOSH SHRIKRUSHNA MHASAL	SSM	4.27
2	DR. KISHOR BHASKAR THENG	KBT	4.27
3	DR. NANDKISHOR KESHAVRAO MORE	NKM	4.26
4	DR. DNYANESHWAR KRISHNA SHERKAR	DKS	4.27

CHART NO.8: MEAN SCORE OF THE STUDENTS FEEDBACK RESPONSES TOWARDS THE STATEMENT ABOUT TEACHER TEACHING IN PHYSICS DEPARTMENT



**Table No.7: Mean score of student's responses towards the parameters about
Physics Department teacher teaching in college**

Physics Department Student Feedback Questionnaire	
Statement	VRW
The teacher comes on time for the lecture and engage his lecture regularly.	4.30
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4.23
The teachers communicate effectively with the students and provide counselling, if necessary, in our difficult times and motivate us to study further.	4.10
The teacher encourages students for asking question, discussion, and classroom participation	4.37
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	4.33
Sincerity and social commitment of our teacher is very good	4.13
The teacher uses ICT tools (LCD projector, multimedia, email etc;	4.33
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4.17
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	4.37
Overall rating of the teacher	4.23

Sr.No.	Name of Teachers	Short Form	Overall Mean Score
1	VISHAL R. WANKHADE	VRW	4.26

Chart No.9: Mean score of the students feedback responses towards the statement about the teacher teaching in computer department

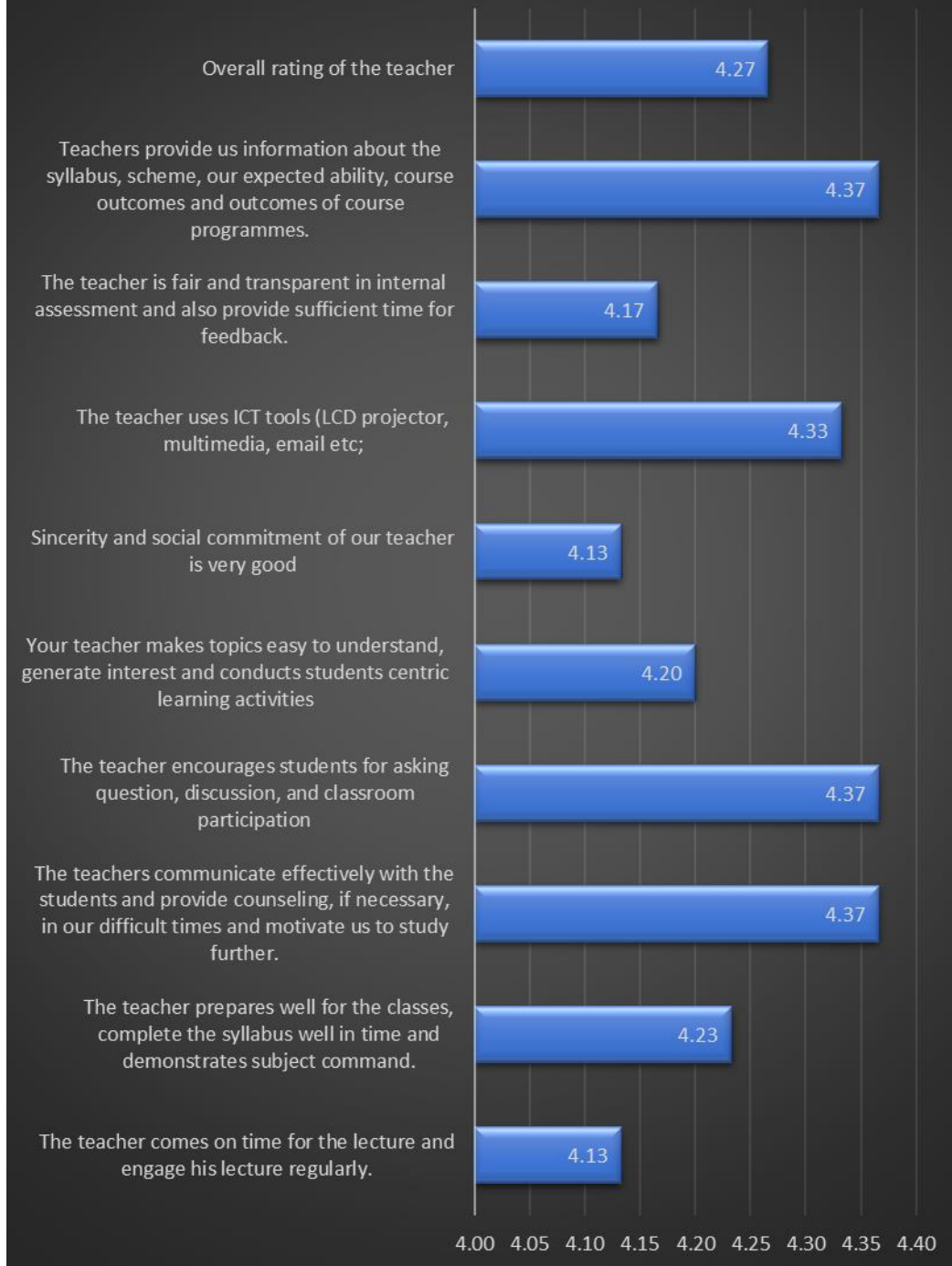


Table No.8: Mean score of student's responses towards the parameters about Computer Department teacher teaching in college

Computer Department Student Feedback Questionnaire	
Statement	DBC
The teacher comes on time for the lecture and engage his lecture regularly.	4.13
The teacher prepares well for the classes, complete the syllabus well in time and demonstrates subject command.	4.23
The teachers communicate effectively with the students and provide counselling, if necessary, in our difficult times and motivate us to study further.	4.37
The teacher encourages students for asking question, discussion, and classroom participation	4.37
Your teacher makes topics easy to understand, generate interest and conducts students centric learning activities	4.20
Sincerity and social commitment of our teacher is very good	4.13
The teacher uses ICT tools (LCD projector, multimedia, email etc;	4.33
The teacher is fair and transparent in internal assessment and also provide sufficient time for feedback.	4.17
Teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.	4.37
Overall rating of the teacher	4.27

Sr.No.	Name of Teachers	Short Form	Overall Mean Score
1	DEEPAK B. CHAUBE	DBC	4.26

Analysis of the Students Feedback Survey:

The students were asked to indicate their feedback, perception on five-point Likert scale of the degree of strongly agreeing, agreeing, neutral, disagreeing, and strongly disagreeing where 5 point was given to strongly agreeing, 4 to agreeing, 3 to neutral, 2 to disagreeing, and 1 to strongly disagreeing. After that, the recorded perceptions on the different statements were processed to obtain the students feedback analysis report. For validation purposes, statements following into specific range as stated in the below table as an example was fixed as the cut-off point; meaning that a student's feedback would be considered as strongly agreeing when the mean score falls between the range 4.30 to 5.00 as mentioned in below table.

Statement Example	Category		Range
	Scaling	Rating	
The office staff in college is cooperative and helpful	Strongly Agree	5	4.30 to 5.00
The office staff in college is cooperative and helpful	Agree	4	3.50 to 4.20
The office staff in college is cooperative and helpful	Neutral	3	2.70 to 3.40
The office staff in college is cooperative and helpful	Disagree	2	1.90 to 2.60
The office staff in college is cooperative and helpful	Strongly Disagree	1	1.00 to 1.80

Conclusions:

Chart No.: 1 and 2 and Table No.: 1 demonstrates that the mean scores of the Arts and Commerce College Warwat Bakal, students stating their responses about the 16 statements based on five-point Likert scale about teaching and learning environment provided by the institutions between degree of strongly agreeing and strongly disagreeing. The mean scores of the responses between the degree of strongly agreeing and strongly disagreeing held by all students for all statements ranged from 3.16, 3.77, 4.22, 4.37, to 4.41 and so on, with an average mean score of 4.20 for all 16 statements. The statement, 'Separate common rooms for girls and boys are available', had scored a highest average mean of 4.41, another statement, 'Equipment's in the lab, projector in classrooms, computers and books in library are in good working condition', had scored average meaning of 4.37 which means that respondents are strongly agreeing with this statement, whereas the statement, 'The functioning of the placement cell in the college is satisfactory' had scored lowest average mean of 3.16 where the respondents preferred to remain neutral on this statement. If we considered the respondents responses average mean of 4.20 for all 16 statements, then we can state that the respondents are satisfied with teaching and learning environment provided by the institutions to them.

Chart No.3 and Table No.2 demonstrates the responses of Arts students' feedback collected on the Feedback Report & Analysis

basis of rating that they had given to the parameters that are mentioned in the above table no. 1, on five points Likert scale. The mean score of student's responses towards the parameters about the teaching of teachers in college states that the teacher encourages students for asking question, discussion, and classroom participation with an average mean of 4.34, teachers are fair and transparent in internal assessment with an average of 4.35, with an average means of 4.30 respondents stated that teachers are sincerity and are socially committed towards their profession, teachers makes topics easy to understand, generate interest and conducts students centric learning activities with an average mean of 4.25, teachers are communicating effectively with the students with an average mean of 4.17, whereas with an average mean of 4.25 respondents states that teachers provide us information about the syllabus, scheme, our expected ability, course outcomes and outcomes of course programmes.

Chart No.: 4 and Table No.: 3 demonstrates the responses of Commerce students' feedback collected on the basis of rating that they had given to the parameters that are mentioned in the above table no. 3, on five points Likert scale. The mean score of student's responses towards the parameters about the teaching of teachers in college states that the teachers are well prepared for their classes, complete their syllabus well in time and had a subject command with an average mean of 4.31, the teacher encourages students for asking question, discussion, and classroom participation with an average mean of 4.23, teachers are fair and transparent in internal assessment with an average of 4.30, with an average of 4.20 teachers are making topics so easy that they are easily understandable by students, teachers are communicating effectively with the students with an average mean of 4.23, whereas with an average mean of 4.28 states that teacher uses ICT tools (LCD projector, multimedia, email etc;) for creating interest and effective teaching in the subject while teaching.

Chart No.: 5 and Table No.: 4 demonstrates the responses of Chemistry students' feedback collected on the basis of rating that they had given to the parameters that are mentioned in the above table no. 4, on five points Likert scale. The mean score of student's responses towards the parameters about the teaching of teachers in college states that the teacher are coming on time for the lecture and engage their lecture regularly with an average mean of 4.30, teachers are sincere and socially committed towards their profession with an average mean for 4.31, teachers encourages students for asking question, discussion, and classroom participation with an average mean of 4.24, teachers are fair and transparent in internal assessment with an average of 4.19, with an average of 4.27, teacher uses ICT tools (LCD projector, multimedia, email etc;) for effective teaching with an average mean of 4.30, teachers are making topics so easy that they are easily understandable by students generate interest and conducts students centric learning activities with an average mean of 4.26, teachers are communicating effectively with the students with an average mean of 4.18, whereas with an average mean of 4.23 states that teachers are coming well prepared for their classes, complete the syllabus well in time and have a subject command with an average mean of 4.23.

Chart No.: 6 and Table No.: 5 demonstrates the responses of Zoology students' feedback collected on the basis of rating that they had given to the parameters that are mentioned in the above table no. 2, on five points Likert scale. The mean score of student's responses towards the parameters about the teaching of teachers in college states that the teacher encourages students for asking question, discussion, and classroom participation with an average mean of 4.23, teachers are fair and transparent in internal assessment and provide sufficient time for feedback with an average of 4.32, with an average of 4.25 teachers are making topics easy to understand, generate interest and conducts students centric learning activities, teacher uses ICT tools (LCD projector, multimedia, email etc;) for effective teaching with an average mean of 4.39, teachers are communicating effectively with the students with an average mean of 4.28, whereas with an average mean of 4.23 states that the teachers are encouraging students for asking question, discussion, and classroom participation.

Chart No.: 7 and Table No.: 6 demonstrates the responses of Botany students' feedback collected on the basis of rating that they had given to the parameters that are mentioned in the above table no. 2, on five points Likert scale. The mean score of student's responses towards the parameters about the teaching of teachers in college states that the teachers are coming on time for the lecture and engaging their lecture regularly with an average mean of 4.24, teachers communicate effectively with the

students and provide counselling, if necessary, in our difficult times and motivate them to study further with an average mean of 4.29. teacher encourages students for asking question, discussion, and classroom participation with an average mean of 4.34, teachers are fair and transparent in internal assessment with an average of 4.29, with an average of 4.16 teachers are making topics so easy that they are easily understandable by students, teachers are communicating effectively with the students with an average mean of 4.14, whereas with an average mean of 4.41 states that teachers are utilizing ICT tools (LCD projector, multimedia, email etc;) for effective teaching.

Chart No.: 8, and Table No.:7 demonstrates that the mean scores of the Physics Department students stating their responses between degree of strongly agreeing and strongly disagreeing about the 10 statements belonging to five-point Likert scale. The mean score of student's responses towards the parameters about the teaching of teachers in college states that the teacher is coming on time for the lecture and engaged his lecture regularly with an average mean of 4.30, teachers communicate effectively with the students and provide counselling, if necessary, in our difficult times and motivate us to study further with an average mean of 4.10, teacher encourages students for asking question, discussion, and classroom participation with an average mean of 4.37, teacher is fair and transparent in internal assessment with an average of 4.17, with an average of 4.33 teacher is making topics so easy that they are easily understandable by students, teacher is communicating effectively with the students with an average mean of 4.10, whereas with an average mean of 4.33 states that teacher is utilizing ICT tools (LCD projector, multimedia, email etc;) for effective teaching.

Chart No.: 9, and Table No.:8 demonstrates that the mean scores of the Computer Department students stating their responses between degree of strongly agreeing and strongly disagreeing about the 10 statements belonging to five-point Likert scale. The mean score of student's responses towards the parameters about the teaching of teachers in college states that the teacher is coming on time for the lecture and engaged his lecture regularly with an average mean of 4.13, teachers communicate effectively with the students and provide counselling, if necessary, in our difficult times and motivate us to study further with an average mean of 4.37, teacher encourages students for asking question, discussion, and classroom participation with an average mean of 4.37, teacher is fair and transparent in internal assessment with an average of 4.17, with an average of 4.20 teacher is making topics so easy that they are easily understandable by students, teacher is communicating effectively with the students with an average mean of 4.37, whereas with an average mean of 4.33 states that teacher is utilizing ICT tools (LCD projector, multimedia, email etc;) for effective teaching.

Action Taken:

The analysis of feedback report was forwarded to the principal and was also discussed in the meeting held by IQAC coordinator for taking collectively correct action to minimize the dissatisfaction of students where the minimum mean score is less than 4.00 and to improve the score against the statement, 'The functioning of the placement cell in the college is satisfactory' the library department will be asked to continue the facility of N-List for accessing e-resources.



Principal
Arts & Commerce College,
Warvat Bakal Dist. Buldana

Collaborative quality initiatives with other institution(s)

In order to have a holistic development of the institute, the college has a collaboration with Dr. Gopalrao Khedkar Mahavidyalay, Gadegaon (Telhara) during 2021-22. Both the colleges in collaboration with each other organised a virtual conference on 'Indian Sensibility in Indian Writing in English' on 29th March, 2022.

One Day National Virtual Conference on Indian Sensibility in Indian Writing in English

Department of English, IQAC of Arts & Commerce College, Warvat Bakal and Dr. G.K. College, Telhara jointly organized one day national e-conference on “Indian Sensibility in Indian Writing in English” on 29 March 2022.

Adv. Gajananrao Pundkar, Vice-President, Shri Shivaji Education Society, Amravati was the Chairperson of the inaugural function. Dr. Murlidhar Wadekar, Joint Director, Higher Education Amaravti Division was the inaugurator while Dr. Bashisth Choubey, Chairman, Board of Studies, Sant Gadge Baba Amravati University, Amravati was the chief guest. Prof Dinesh Kumar delivered inaugural speech as a resource person. The introductory speech was given by Convener Dr. R. S. Sudke, The programme was conducted by Convener & IQAC Coordinator Dr. G. O. Jondhalekaar while Prof. Nishigandh Satav, Convener proposed a vote of thanks.

It was followed by first technical session presided over by Dr. Vijay Darane, Principal Late Dattatraya Pusadkar Arts College, Nandgaon Peth, Amravati. Dr. Amar Singh, Professor, Govt. Autonomous PG College, Chhindwara, M. P. delivered an elaborative key-note speech on ‘Indian Consciousness in Indian English Literature’ on the occasion. The first technical session was conducted by Prof. Nishigandh Satav and also proposed a vote of thanks. The second technical session was presided over by Dr. Gopal Dhole, Principal, Dr. G. K. Mahavidyalaya, Telhara. The key-note speaker was Dr. Amar Nath Prasad, a renowned writer and Professor and Head of Department of English at Jagdam College, Chhapra, (Bihar). The second session was conducted by Prof. Abhinav Pundkar and also proposed a vote of thanks.

In the valedictory function the Chairperson was Adv. Vishwasrao Nerkar, Life Member, Shri Shivaji Education Society, Amravati. Dr. Sanjay Tale, In-charge Principal, Arts & Commerce College, Warvat Bakal and Dr. Gopal Dhole, Principal, Dr. G. K. Mahavidyalaya, Telhara were present for the programme. Shri Dadarao Patil Pathrikar, Life Member, Shri Shivaji Education Society, Amravati was also present on the occasion. The valedictory function was conducted by Prof. Nagesh Ingle and vote of thanks was proposed by Dr. G. O. Jondhalekar.

The special issue of International Peer Reviewed Research Journal Vidyawarta published at the end of the month. 47 delegates contributed their research papers in the journal. The conference was participated by a large number of faculty members, researchers and students. The technical support was given by Dr. K.A. Mahure, Prof. Abhinav Pundkar, Amol Gebad and Abhijit Lokhande.


**Head, Dept. of English
Arts & Commerce College
Warvat Bakal**

Our Patron



Hon. Harshvardhanji Deshmukh
President
Shri Shivaji Education Society Amravati

Chairperson



Hon. Adv. Gajananrao Pundkar
Vice-President
Shri Shivaji Education Society Amravati

Inaugurator



Hon. Dr. Muralidhar Wadekar
Joint Director
Higher Education Amravati Division

Key-note address



Dr. Amar Singh
Professor
Govt. College Chhindwara MP



Dr. Amar Nath Prasad
Professor
Jagdam College, Chapra, Bihar



Dr. Bashisth Choubey
Chairman, BoS
SGB Amravati University

Chief Guest



Dr. Gopal Dhole
Principal
Dr. Gopalrao Khedkar Mv. Gadegaon



Dr. Jagannath Chaudhari
Principal
Arts and Commerce College, Warvat

Organizer



Dr. Gopal Jondhalekar
IQAC Co-ordinator
Dr. Gopalrao Khedkar
Mv. Gadegaon (Telhara)



Dr. Rahul Sudke
Head, Dept. of English
Dr. Gopalrao Khedkar
Mv. Gadegaon (Telhara)



Prof. Nishigandh Satav
IQAC Co-ordinator
Arts and Commerce
College, Warvat Bakal

Convener



Shri Shivaji Education Society Amravati's
Dr. Gopalrao Khedkar Mahavidyalaya,
Gadegaon (Telhara) Dist Akola
Department of English and IQAC
in collaboration with
Arts and Commerce College,
Warvat Bakal, Dist. Buldana



Organizes

One day National Level Virtual Conference on
Indian Sensibility in Indian
Writing in English
Tuesday 29 March 2022

—R.S.V.P.—

Dr. Gopal J. Dhole
Principal

Dr. Gopalrao Khedkar Mahavidyalaya, Gadegaon (Telhara)

Dr. Jagannath Chaudhari
Principal

Arts and Commerce College, Warvat Bakal, Dist. Buldana

Dr. Rahul Sudke
Head, Department of English

Dr. Gopal Jondhalekar
IQAC Co-ordinator

Prof. Nishigandh Satav
IQAC Co-ordinator

Organising Committee

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Prof. M. P. Chopade.

Dr. K. A. Mahure

Prof. M. M. Kawarke

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Prof. Gajanan Ingale

For conference related information contact on
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◆ Participation in Conference - Free

◆ All participants will get E- Certificates after successful feedback.

Inaugural Function

Date : Tuesday 29 March 2022

Time : 12.00 pm to 12.30 pm

Chairperson : Hon. Adv. Gajananrao Pundkar
Vice-President, Shri Shivaji Education Society, Amravati

Inaugurator : Hon. Dr. Murlidhar Wadekar
Joint Director, Higher Education Amravati Division

Chief Guest : Hon. Dr. Bashisth Choubey
Chairman, BoS SGB Amravati University, Amravati

Hon. Dr. Gopal J. Dhole,
Principal, Dr. Gopalrao Khedkar Mv. Gadegaon, Telhara

First Technical Session

Time: 12.30 pm to 1.15 pm

Key-note Speaker : Hon. Dr. Amar Singh
Professor, Govt. Post Graduate Autonomous Lead College,
Chhindwara (Madhya Pradesh)

Chairperson : Hon. Dr. Jagannath Chaudhari,
Principal, Arts and Commerce College, Warvat Bakal

Second Technical Session

Time: 1.15 pm to 2.00 pm

Key-note Speaker : Hon. Dr. Amar Nath Prasad,
Professor and Head Dept. of English
Jagdam College, Chapra, (Bihar)

Chairperson : Dr. Gopal J. Dhole
Principal, Dr. Gopalrao Khedkar Mv. Gadegaon, Telhara

Valedictory Function

Time:- 2.00 pm to 2.15 pm

Chairperson : Hon. Adv. Vishwasrao Nerkar
Life Member, Shri Shivaji Education Society, Amravati

Chief Guest : Hon. Dadarao Patil Pathrikar
Life Member, Shri Shivaji Education Society, Amravati

Chief Guest : Hon. Dr. Gopal J. Dhole
Principal, Dr. Gopalrao Khedkar Mv. Gadegaon, Telhara

Chief Guest : Hon. Dr. Jagannath Chaudhari,
Principal, Arts and Commerce College, Warvat

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Prin. Dr. Sunil Pande	Prin. Dr. Gopal Dhole

Technical Support Committee

Dr. Krushna A. Mahure.	Prof. Abhinav Pundkar.
Mr. Amol Gebad	Mr. Abijit Lokhande

Whatsapp Group Link & QR Code

<https://chat.whatsapp.com/CkNqsgSpuAr1lAr1mhmw1O>



Conference will be conducted on Zoom Platform. Zoom Link will be shared on 28th march 2022 on whatsapp group.

About College :- Dr. Gopalrao Khedkar Mahavidyalaya Gadegaon (Telhara) is run by Shri Shivaji Education Society, Amravati. The college was established in 1969. It is affiliated to Sant Gadge Baba Amravati University, Amravati. There are three faculties i.e. Arts, Commerce & Science with optional subjects. The college offers education from the 11th standard to the Post Graduate level. There is vocational course like H.S.V.C. too. Students from all walks of life especially from rural areas admit to the college with the goal to obtain quality education from the competent teachers. There is PG in Marathi and Political Science and M. Com. There are four faculty members nominated by Sant Gadge Baba Amravati University as Ph. D. Supervisors. All teachers are well versed in knowledge and information. They are ever ardent to work for the mission of the college. There are extension activities such as N.S.S., N.C.C. Physical Department, Cultural activities for all-round development of students. The college library has the largest stock of the oldest as well as the most recent books on all subjects taught in the college and issued a text and reference book. The college has been accredited with B Grade in CGPA 2.12 by NACC. The competent teaching and non-teaching staff devotedly discharge their duties under an efficient administrator and Principal Dr. G. J. Dhole

About Conference :- Shri Shivaji Education Society Amravati's Dr. Gopalrao Khedkar Mahavidyalaya, Gadegaon, Telhara Dist. Akola and Arts and Commerce College Warvat Bakal affiliated to Sant Gadge Baba Amravati University Amravati and Department of English and IQAC jointly organize One Day National e-Conference on Indian Sensibility in Indian Writing in English. The strain of Indianness and the realistic portrayal of contemporary life persist through the writings of eminent poets, novelists, dramatists and short-story writers in Indian writing in English. The rampant dealings with the urban and rural society, culture, characters and way of life find its faithful depiction in Indo-Anglian literature. The conference is organized to focus on the issues related to the realistic portrayal of Indianness in Indian writing in English. This National e-Conference will certainly cater to the critical thinking and creativity of the researchers and faculties to share their views and to retrospect the rich and varied heritage of Indian life, culture and society as described in the contemporary genres of Indo-Anglian Literature.

Sub Themes:- 1. The Indianness or Indian sensibility discerned in Indo-Anglian Fiction. 2. Indian culture depicted in Indian writing in English. 3. Indian sensibility displayed in Indian Short stories. 4. Indian social life described in Indian drama in English. 5. Realistic portrayal of gender and racial conflict in Indian writing in English. 6. The depiction of subaltern Literature with Reference to Indo-Anglian Fiction. 7. The depiction of Subaltern Literature with Reference to Indo-Anglian poetry. 8. Post- Covid Pandemic Scenario as depicted in Indian writing in English. 9. Indian sensibility in Performing Arts. 10. The social awareness as displayed in Indian Fiction.

The authors can contribute their research papers on any topic of their choice relevant to the main theme of the conference.

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Last date of Research Article Submission 25th April 2022

One day National Level Virtual Conference on
Indian Sensibility in Indian Writing in English
Programme Schedule

Date : 29/03/2020

S. N.	Session	Activity	Name	Time
1.	Inauguration	Introductory Remark	Dr. Rahul Sudke	12:00 To 12:30
		Inaugural Speech	Dr. Muralidhar Wadekar	
		Chief Guest	Dr. Bashisth Choubey	
		Resource Person's Speech	Prof. Dinesh Kumar	
		Chairperson's Speech	Adv. Gajananrao Pundkar	
		Vote of Thanks	Prof. Nishigandh Satav	
		Anchoring	Dr. Gopal Jondhalekar	
2.	First Technical Session	Key-note Speaker	Dr. Amar Singh	12:30 To 1:15
		Chairperson	Dr. Vijay Darane	
		Vote of Thanks	Prof. Nishigandh Satav	
		Anchoring	Prof. Nishigandha Satav	
3.	Second Technical Session	Key-note Speaker	Dr. Amar Nath Prasad	1:15 To 2:00
		Chairperson	Dr. Gopal Dhole	
		Vote of Thanks	Prof. Abhinav Pundkar	
		Anchoring	Prof. Abhinav Pundkar	
4.	Valedictory Function	Chief Guest	Dr. Sanjay Tale	2:00 To 2:15
		Chief Guest	Dr. Gopal Dhole	
		Chairperson	Adv. Vishwasrao Nerkar	
		Vote of Thanks	Dr. Gopal Jondhalekar	
		Anchoring	Prof. Nagesh Ingle	

Principal

Link for the recorded conference:

<https://drive.google.com/file/d/1ijC3tPvIK-FI1owK1QdgGJBLDz5xDl6p/view?usp=sharing>

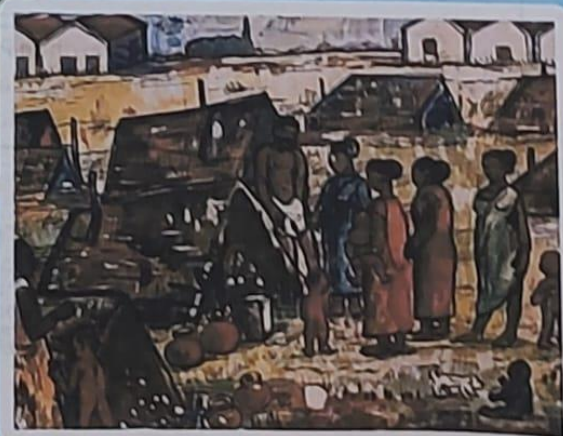


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Indian Sensibility in Indian Writing in English

Editor
Dr. Rahul S. Sudke



कला व वाणिज्य महाविद्यालयात आभासी परिषद संपन्न

संग्रामपूर, ता. ३० : कला वाणिज्य महाविद्यालय, वरवट बकाल येथे "भारतीय इंग्रजी साहित्यामधील भारतीय संवेदना" या विषयावर (ता. २९) मार्च रोजी आभासी परिषद संपन्न झाली.

याकरिता बीजभाषक म्हणून छिंदवाडा विद्यापीठातील प्रसिद्ध समीक्षक डॉ. अमरसिंग व छापरा बिहार येथील इंग्रजी साहित्याचे प्रख्यात अभ्यासक डॉ. अमरनाथ प्रसाद उपस्थित होते. या परिषदेमध्ये देशभरातून १६५ अभ्यासक सहभागी झाले होते. डॉ. अमरसिंग यांनी आपल्या भाषणातून भारतीय इंग्रजी साहित्याच्या विविध छटा उपस्थितांसमोर सादर केल्या तर डॉ. अमरनाथप्रसाद यांनी त्यांचे ओघवत्या वक्तृत्व शैलीतून भारतीय इंग्रजी साहित्याचा संपूर्ण पट अभ्यासकांकरिता सादर केला. या कार्यक्रमाच्या उदघाटन प्रसंगी डॉ. मुरलीधर वाडेकर, प्रो. दिनेश कुमार, डॉ. वशिष्ठ चौबे यांची उपस्थिती होती. सदर परिषद कला वाणिज्य महाविद्यालय, वरवट बकाल व डॉ. गोपाळराव खेडकर महाविद्यालय, तेलहारा यांचे संयुक्त विद्यमाने आयोजित करण्यात आली. या परिषदेचे आयोजन प्राचार्य डॉ. जगन्नाथ चौधरी व प्राचार्य डॉ. गोपाल ढोले यांच्या मार्गदर्शनात इंग्रजी विभाग व आयक्यूएसी यांच्या विद्यमाने आयोजित करण्यात आली. परिषदेच्या यशस्वितेकरिता दोन्ही महाविद्यालयातील प्राध्यापक व प्राध्यापकेतर कर्मचारी यांचे योगदान लाभले.



Head, Dept. of English
Arts & Commerce College
Warvat Bakal

6.5.3 Quality assurance initiatives of the institution include

Supporting Documents D

Quality Audits

- 1. Environment Audit**
- 2. Green Audit**

Report
On
Environmental Audit
At
Arts & Commerce College warwat Bakal, Buldana.
(Year 2021-22)

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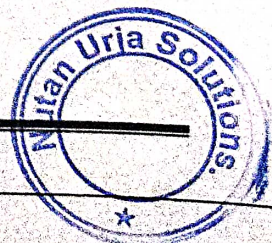
Acknowledgement

We at Nutan Urja Solutions, Pune wish to express our sincere gratitude to the management of Arts & Commerce College Warwat Bakal, Buldana for assigning the work of Environmental Audit of college campus.

We appreciate the co-operation and support extended to our team members during the entire tenure of field study.

We are also thankful to various Head of Departments & other Staff members for helping us during the field measurements.

We are also thankful to all other staff members who helped us during the Measurements at the field and for giving us the necessary inputs to carry out this vital exercise.



Executive Summary

After the Field measurements & analysis, we present herewith important observations made and various measures to reduce the dependency on Natural resources & reduce the pollution.

Arts & Commerce College Warwat Bakal, Buldana consumes various resources for day to day operations, namely: Air, Water, Electrical Energy & LPG.

1. Various Pollution due to College Activities:

- Air pollution: Mainly CO₂ on account of Electricity & LPG Consumption
- Solid Waste: Bio degradable Kitchen Waste, Garden Waste
- Liquid Waste: Human liquid waste

2. Present Level of CO₂ Emissions:

Sr no	Parameter	Energy consumed, (Units)	CO2 Emission (MT)
1	Maximum	638	0.51
2	Minimum	410	0.33
3	Average	509	0.41
4	Total	6,113	4.89

3. The various projects already implemented for Environmental Conservation:

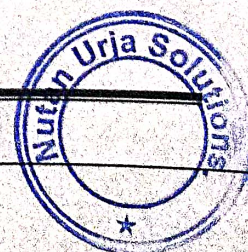
- Usage of Natural Day light in corridors
- Implementation of Bio Composting pit for disposal of Bio degradable waste
- Implementation of Rain Water Harvesting

4. Recommendations:

1. Installation of Bio Gas Generator Plant instead of Bio composting Plant.
2. Installation of Sewage treatment Plant to make campus a Zero Discharge campus

5. Notes & Assumptions:

1. 1 kWh of Electrical Energy releases 0.8 Kg of CO₂ into atmosphere
2. 1 kWp Solar PV plant generates 5 kWh/day Electrical Energy for 300 days in an year.



Abbreviations

AC	:	Air conditioner
PES	:	Progressive Education Society
CFL	:	Compact Fluorescent Lamp
FTL	:	Fluorescent Tube Light
LED	:	Light Emitting Diode
kWh	:	kilo-Watt Hour
Qty	:	Quantity
W	:	Watt
kW	:	Kilo Watt
PF	:	Power Factor
M D	:	Maximum Demand
PC	:	Personal Computer
MSEDCL	:	Maharashtra State Electricity Distribution Company Ltd



1. Introduction

1.1 Important Definitions:

1.1.1 Environment: Definition as per environment Protection Act: 1986

Environment includes water, air and land and the inter-relationship which exists among and between Water, Air, Land and Human beings, other living creatures, plants microorganism and property

1.1.2. Environmental Audit: Definition:

An audit which aims at verification and validation to ensure that various environmental laws are compiled with and adequate care has been taken towards environmental protection and preservation

According to UNEP, 1990, "Environmental audit can be defined as a management tool comprising systematic, documented and periodic evaluation of how well environmental organization management and equipment are performing with an aim of helping to regularize the environment"

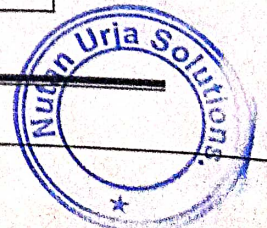
1.1.3. Environmental Pollutant: means any solid, liquid and gaseous substance present in the concentration as may be, or tend to be, injurious to Environment.

1.1.4. Relevant Environmental Laws in India: Table No-1:

1927	The Indian Forest Act
1972	The Wildlife Protection Act
1974	The Water (Prevention and Control of Pollution) Act
1977	The Water (Prevention & Control of Pollution) Cess Act
1980	The Forest (Conservation) Act
1981	The Air (Prevention and Control of Pollution) Act
1986	The Environment Protection Act
1991	The Public Liability Insurance Act
2002	The Biological Diversity Act
2010	The National Green Tribunal Act

1.1.5. Some Important Environmental Rules in India: Table No-2:

1989	Hazardous Waste (Management and Handling) Rules
1989	Manufacture, Storage and Import of Hazardous Chemical Rules
2000	Municipal Solid Waste (Management and Handling) Rules
1998	The Biomedical Waste (Management and Handling) Rules
1999	The Environment (Siting for Industrial Projects) Rules
2000	Noise Pollution (Regulation and Control) Rules
2000	Ozone Depleting Substances (Regulation and Control) Rules



2011	E-waste (Management and Handling) Rules
2011	National Green Tribunal (Practices and Procedure) Rules
2011	Plastic Waste (Management and Handling) Rules

1.1.6 National Environmental Plans & Policy Documents: Table No-3:

1.	National Forest Policy, 1988
2.	National Water Policy, 2002
3.	National Environment Policy or NEP (2006)
4.	National Conservation Strategy and Policy Statement on Environment and Development, 1992
5.	Policy Statement for Abatement of Pollution (1992)
6.	National Action Plan on Climate Change
7.	Vision Statement on Environment and Human Health
8.	Technology Vision 2030 (The Energy Research Institute)
9.	Addressing Energy Security and Climate Change (MoEF and Bureau of Energy Efficiency)
10	The Road to Copenhagen; India's Position on Climate Change Issues (MoEF)

1.2 Objectives

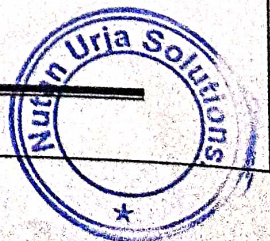
1. To study present usage of Natural resources the College is consuming
2. To Study the present pollution sources
3. To study various measures to make the campus Self sustainable in respect of Natural resources
4. To suggest the various measures to reduce the pollution: Air, Water, Noise

1.3 Audit Methodology:

1. Study of College as System
2. Study of Electrical Energy Consumption
3. Study of CO2 emissions
4. Suggestions on usage of Renewable Energy

1.4 General Details of College

No	Head	Particulars
1	Name of Institution	Arts & Commerce College warwat Bakal, Buldana
2	Address	Arts & Commerce College warwat Bakal, Buldana ,Maharashtra 444202
3	Affiliation	Sant Gadge Baba Amravati University, Amravati.



2. Study of Consumption of Various Resources

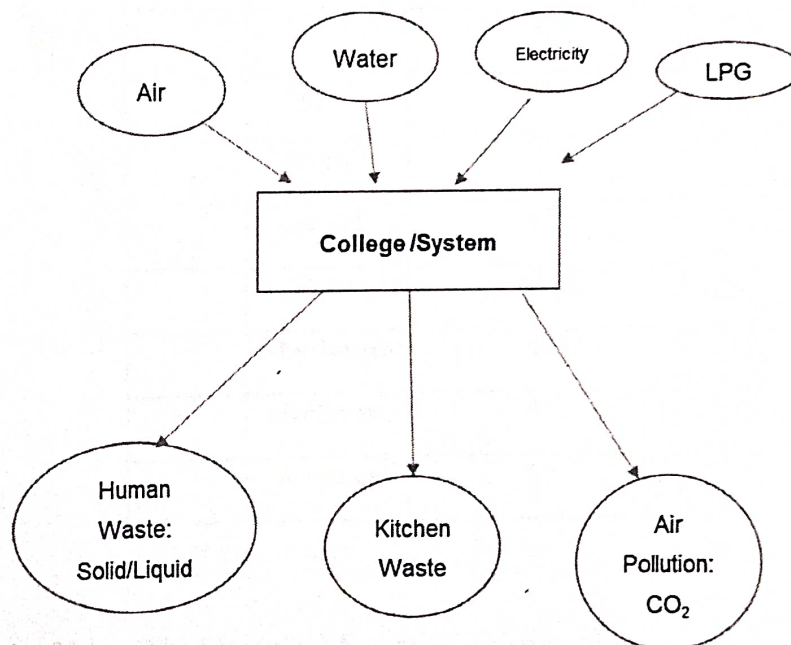
The Institute consumes following basic/derived Resources:

1. Air
2. Water
3. Electrical Energy
4. Liquefied Petroleum Gas

Also, college emits following pollutants to environment

1. Human Waste: Solid/ Liquid
2. Kitchen waste
3. Air pollution

We try to draw a schematic diagram for the College System & Environment as under.



Now we compute the Generation of CO₂ on account of consumption of Electrical Energy & LPG as under.

The calculation of electrical energy consumption by college can be given as,

Table 2.1: Electrical Energy Consumption

No	Month	Energy Consumed, kWh
1	Jun-22	519
2	May-22	576
3	Apr-22	638
4	Mar-22	477
5	Feb-22	410
6	Jan-22	473
7	Dec-21	531
8	Nov-21	443
9	Oct-21	471
10	Sep-21	554
11	Aug-21	570
12	Jul-21	451
	Total	6113
	Maximum	638
	Minimum	410
	Average	509

2.1 Variation of Monthly Electrical Energy Consumption

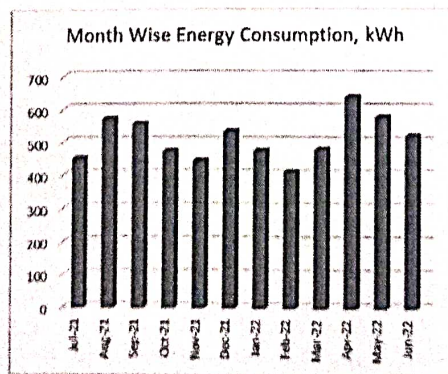


Figure 2.1 : Monthly Electrical Energy Consumption

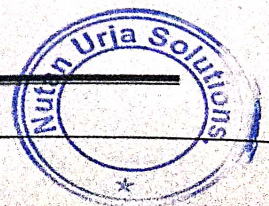


2.2 Key Inference drawn

From the above analysis, we present following important parameters:

Table 2.2: Variation in Important Parameters

No	Parameter/ Value	Energy Consumed, kWh
1	Maximum	638
2	Minimum	410
3	Average	509
4	Total	6113



3. Study of Environmental Pollution

In this Chapter, we present the various types of Pollution as under:

3.1 Air Pollution

The College is using two forms of Energies, namely: Thermal in the form of LPG and Electrical Energy used for day to day operations of the College. The major pollutant on account of above Energy forms is the Carbon Di Oxide.

- 1 unit (kWh) of Electrical Energy emits 0.8 Kg of CO₂ in the atmosphere
- 1 Kg of LPG emits 3 Kg of CO₂ in the atmosphere

In the following Table, we present the CO₂ emissions.

Table 3.1: Month wise Consumption of Electrical Energy & CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jun-22	519	0.42
2	May-22	576	0.46
3	Apr-22	638	0.51
4	Mar-22	477	0.38
5	Feb-22	410	0.33
6	Jan-22	473	0.38
7	Dec-21	531	0.42
8	Nov-21	443	0.35
9	Oct-21	471	0.38
10	Sep-21	554	0.44
11	Aug-21	570	0.46
12	Jul-21	451	0.36
	Total	6,113	4.89
	Maximum	638	0.51
	Minimum	410	0.33
	Average	509	0.41

In the following Chart we present the CO₂ emissions due to usage of Electrical Energy.

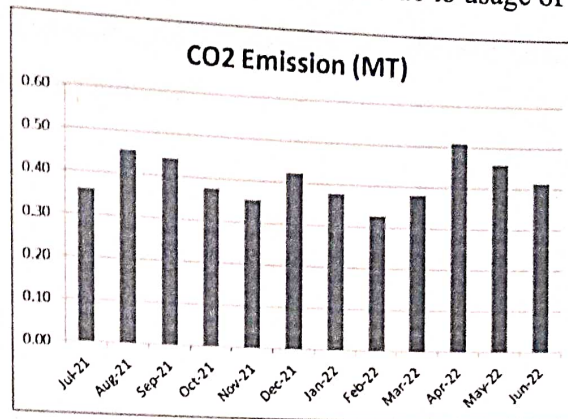
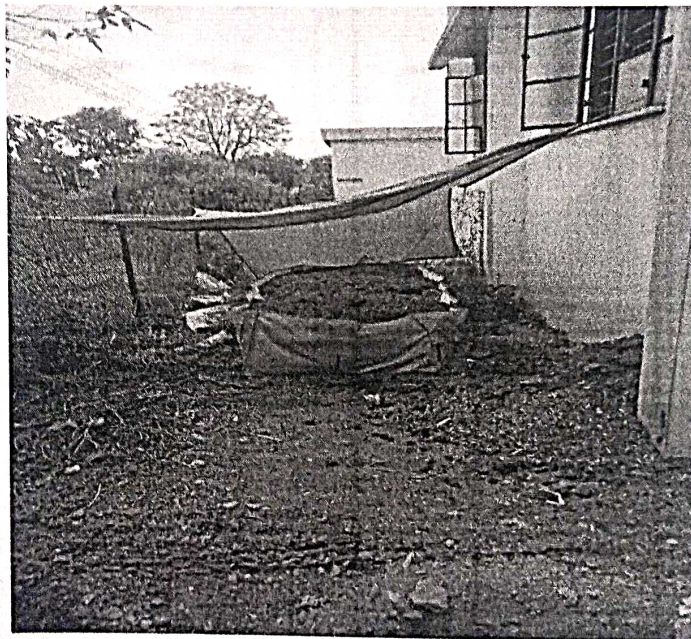


Figure 3.1: CO₂ emission due to usage of electrical energy.

3.2 Study of Solid Waste Generation

The College has already installed a Bio composting Plant, wherein, the bio-degradable waste is composted & is used as fertilizer for the garden.

3.2.1 Photograph of Bio Composting Processing Tanks

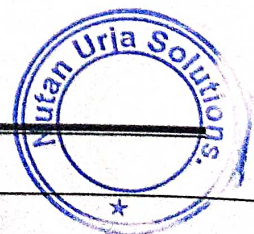


3.3 Study of Liquid Waste Generation

At present the Liquid Waste generated due to day to day operations is drained off to the municipal Corporation through a pipe.

3.4 Study of e-Waste Management:

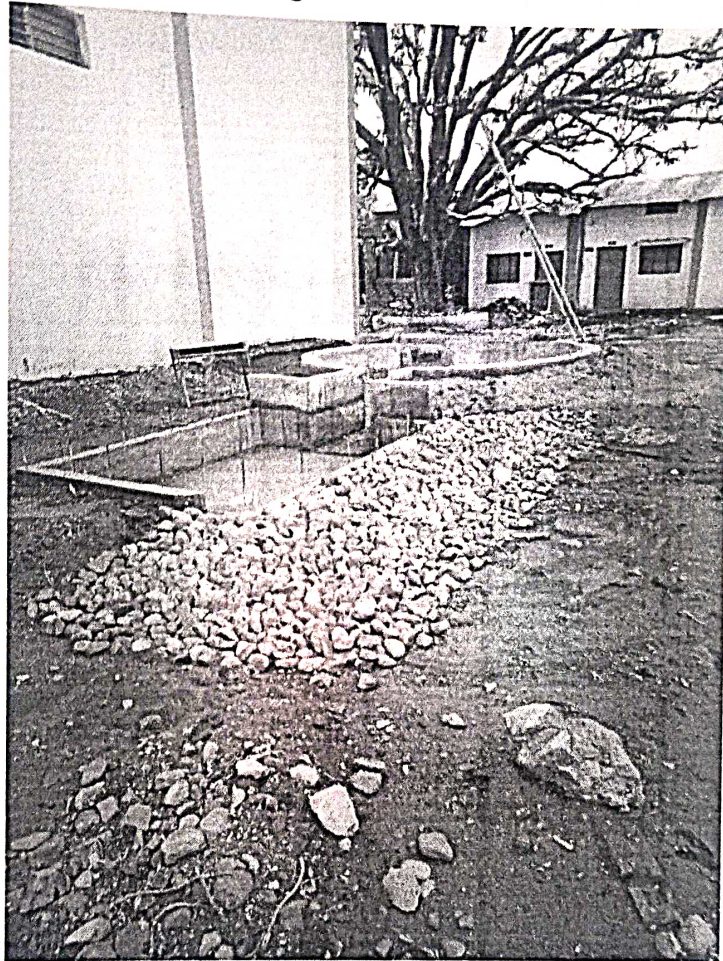
The internal communication is through emails and hence there is hardly any generation of e-Waste in the premises.



4. Study of Rain Water Harvesting

The College has already installed Rain Water Harvesting project, wherein the rain water falling on the terrace is collected and through pipes it is fed to underground Water Storage tank. This stored water is then reused for domestic purpose.

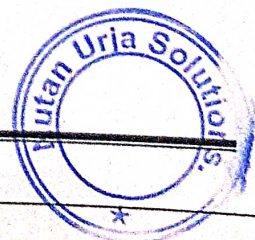
Photograph of Rain Water Harvesting:



5. Recommendations

In order to reduce the dependency on Natural resources and also in order to reduce the various pollutions arising due to the day to day operations of the College we herewith recommend following recommendations.

- Installation of Bio Gas Generator Plant instead of Bio composting Plant.
- Installation of Sewage treatment Plant to make campus a Zero Discharge campus



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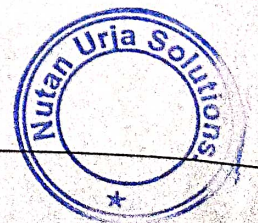
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Acknowledgement

We at Nutan Urja Solutions, Pune, express our sincere gratitude to the management of Arts & Commerce College warwat Bakal, Buldana for awarding us the assignment of Green Audit of their college premises.

We are also thankful to various Head of Departments & other Staff members for helping us during the field measurements.

We hope that the recommendations stated in this report will be useful and worthy of discussions to take things forward to help implementation of energy conservation measures and green practices. While we have made every attempt to adhere to high quality standards, in both data collection and analysis through the report, we would welcome your suggestions so as to improve upon this report further.



Executive Summary

Green Audit of Arts & Commerce College warwat Bakal, Buldana is conducted by Nutan Urja Solutions, Pune. Based On the audit field study, following important points can be presented.

1. Present Energy Consumption

Arts & Commerce College warwat Bakal, Buldana uses Electrical Energy as the source of Energy for various equipment in the college campus. In the following Table, we present the details of Energy Consumption.

Table no 1: Details of energy consumption

Sr no	Parameter	Energy consumed, (Units)	CO2 Emission (MT)
1	Maximum	638	0.51
2	Minimum	410	0.33
3	Average	509	0.41
4	Total	6,113	4.89

2. Various Measures Adopted for Energy Conservation

1. Usage of STAR Rated ACs at new installations
2. Usage of LED lights at some indoor locations
3. Usage of LED Lights for outdoor lighting.

3. Rain Water Harvesting

The College has installed the Rainwater harvesting project, to reduce dependency on municipal corporation water supply.

4. Waste Management

The College has already installed a Bio composting Plant, wherein, the bio-degradable waste is composted & is used as fertilizer for the garden.

The internal communication is through emails and hence there is hardly any generation of e-Waste in the premises.



6. Notes and Assumptions

1. Daily working hours-10 Nos
2. Annual working Days-250 Nos
3. Average Rate of Electrical Energy : Rs 11/- per kWh



Abbreviations

- CFL : Compact Fluorescent Lamp
FTL : Fluorescent Tube Light
LED : Light Emitting Diode
V : Voltage
I : Current
kW : Kilo- Watt
kWh : kilo-Watt Hour
kVA : Active Power



1. Introduction

The mission undertaken by Arts & Commerce College warwat Bakal, Buldana is to strive and provide Education to those poor, downtrodden and exploited communities of the area. It will accelerate the development of this region and establish confidence among the youth.

1.1 Objectives

1. To study present level of Energy Consumption
2. To Study the present CO₂ emissions
3. To assess the various equipment/facilities from Energy efficiency aspect
4. To measure various Electrical parameters
5. To study Scope for usage of Renewable Energy
6. To study various measures to reduce the Energy Consumption

1.2 Audit methodology

1. Study of connected load
2. Study of various Electrical parameters
3. To prepare the Report with various Encon measures with payback analysis



2. Study of Electrical Energy Consumption

In this chapter, electricity bills are studied for the analysis of electrical energy consumption.

Table no 2.1: Summary of electricity bills

No	Month	Energy (kWh)	Bill Amount (Rs)
1	Jun-22	519	13290
2	May-22	576	9,220
3	Apr-22	638	4,800
4	Mar-22	477	3,720
5	Feb-22	410	7,080
6	Jan-22	473	3,730
7	Dec-21	531	15,630
8	Nov-21	443	11,500
9	Oct-21	471	7,940
10	Sep-21	554	4,200
11	Aug-21	570	7,990
12	Jul-21	451	3,640
	Total	6113	92740

Variation in energy consumption is as follows,



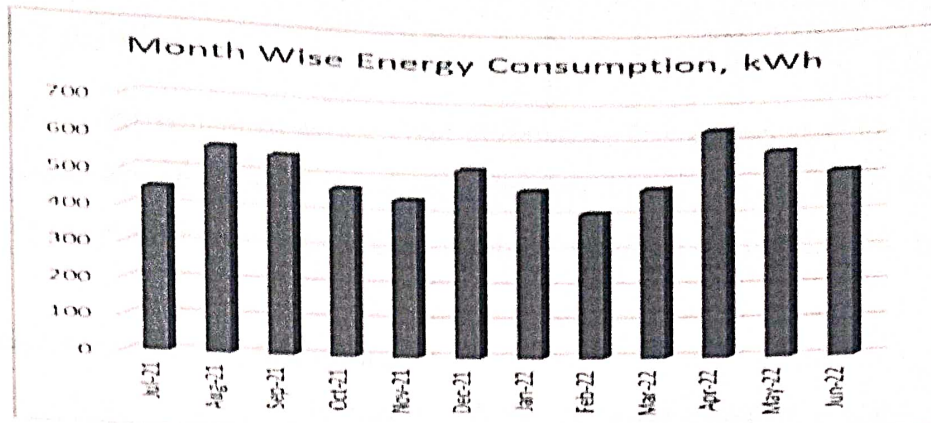


Figure 2.1: Month wise energy consumption

Monthly variation in electricity bill is as follows,

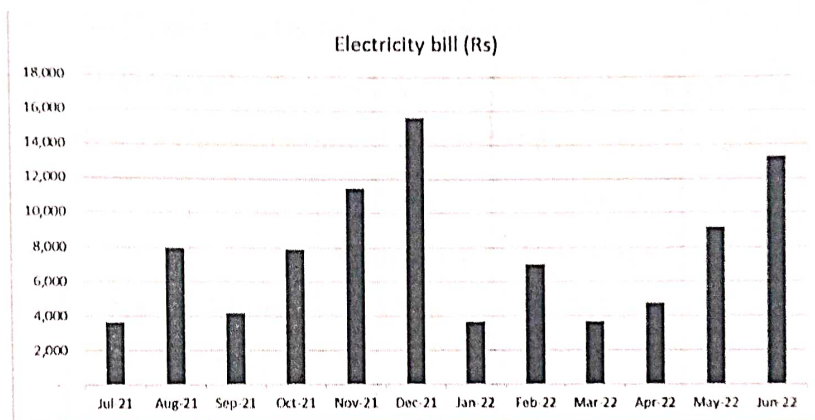


Figure 2.2: Month wise electricity bill

Key observations of electricity bill are as follows,

Table no 2.2: Key observations

Sr no	Parameter	Energy consumed, (Units)	CO2 Emission (MT)
1	Maximum	638	0.51
2	Minimum	410	0.33
3	Average	509	0.41
4	Total	6,113	4.89



3. Carbon Foot printing

1. A Carbon Foot print is defined as the Total Greenhouse Gas emissions (CO₂ emissions), emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various form of Electrical Energy used by the College for performing its day to day activities

2. Basis for computation of CO₂ Emissions:

The basis of Calculation for CO₂ emissions due to Electrical Energy is as under

- 1 Unit (kWh) of Electrical Energy releases **0.8 Kg of CO₂** into atmosphere.

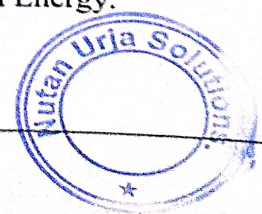
Based on the above Data we compute the CO₂ emissions which are being released in to the atmosphere by the College due to its Day to Day operations

We herewith furnish the details of various forms of Energy consumption as under

Table 3.1: Month wise Consumption of Electrical Energy & CO₂ Emissions

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jun-22	519	0.42
2	May-22	576	0.46
3	Apr-22	638	0.51
4	Mar-22	477	0.38
5	Feb-22	410	0.33
6	Jan-22	473	0.38
7	Dec-21	531	0.42
8	Nov-21	443	0.35
9	Oct-21	471	0.38
10	Sep-21	554	0.44
11	Aug-21	570	0.46
12	Jul-21	451	0.36
	Total	6,113	4.89

In the following Chart we present the CO₂ emissions due to usage of Electrical Energy.



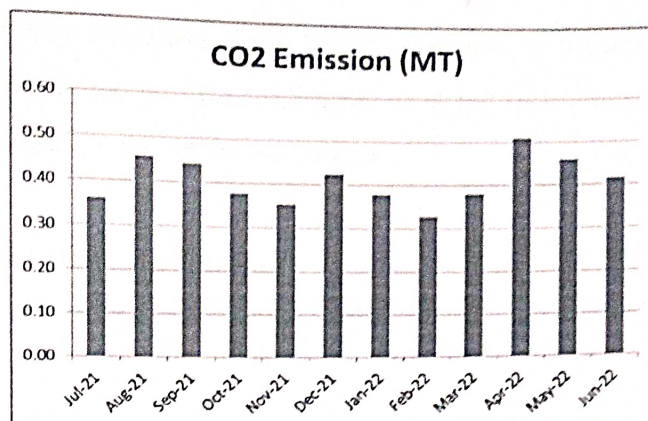


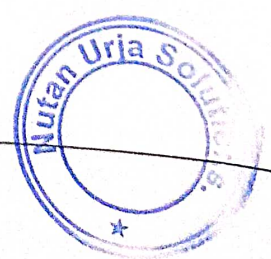
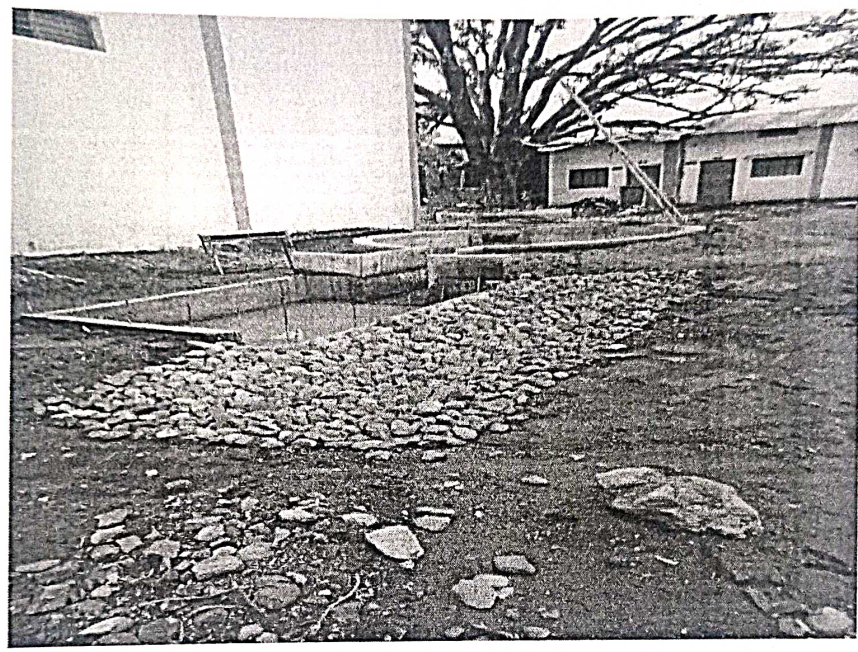
Figure 3.1: Month wise CO2 Emission



4. Study of Rain Water Harvesting

The College has already installed Rain Water Harvesting project, wherein the rain water falling on the terrace is collected and through pipes it is fed to underground Water Storage tank. This stored water is then reused for domestic purpose.

Photograph of Rain Water Harvesting



5. Study of Waste Management

5.1 Solid Waste Management

The College has already installed a Bio composting Plant, wherein, the bio-degradable waste is composted & is used as fertilizer for the garden.

Photographs of Bio Composting Storage Tanks:



5.2 e-Waste Management

The internal communication is through emails and hence there is hardly any generation of e-Waste in the premises.

6. Study of Green Practices

6.1 No of students who don't use own Vehicle for coming to Institute

Out of total students coming to Institute, about 60% students use own Automobile.

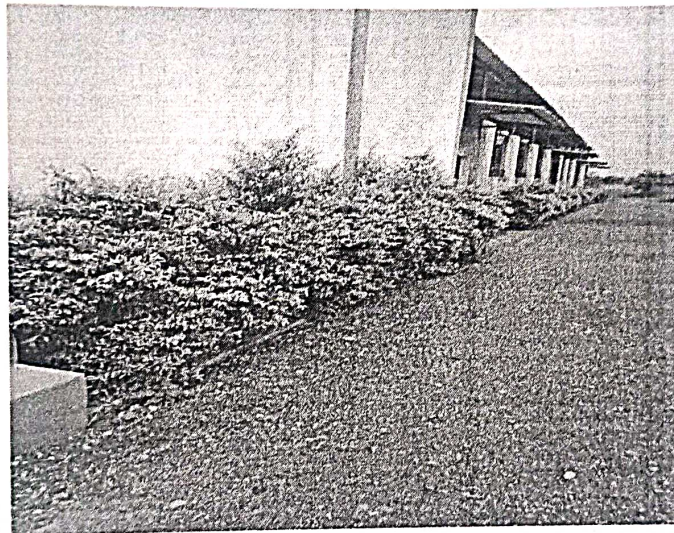
6.2 Usage of Public Transport

During the Students transport study, it was revealed that the local students who are residing near areas make use of Public Transport like Municipal Transport local buses, local sharing type auto rickshaws. Some students use bicycles.

6.3 Pedestrian Friendly Roads

The Institute has well defined pedestrian foot paths as to facilitate the easy movement of the students within the campus.

Photograph of Road within campus



6.4 Plastic Free Campus

The Institute is an active participant in the Government of India's most prestigious project of SWATCHH BHART ABHIYAN. The Institute has displayed boards in the Campus, to make the campus plastic free. Various measures adopted for this purpose are as follows

- Installation of Separate waste bins for Dry waste & wet waste
- Usage of paper tea cups in the Institute canteen
- Display of boards in the campus for Plastic Free campus

6.5 Paperless Office

The internal communication of the Institute is through the Internet. There are hardly any day to day operations, where printing is required.

6.6 Green Landscaping with Trees and Plants

The Institute has beautiful maintained Garden.



Figure 6.1: Beautiful maintained Garden of college