Smt. Narsamma Arts, Commerce and Science College, Amravati Department of Computer Science Academic Session 2021-22

Baseline Assessment Profile

A. Zero Test Report

1. Question Paper of Zero Test

(This questionnaire contains 20 MCQ type questions, each carrying 01 mark, Qualifying Score: 50%. Questionnaire is intended to test the general know how of the examinee at the entry point of the sought course)

Smt. Narsamma Arts, Commerce and Science College, Amravati
Department of Computer Science
Academic Session 2021-22

Baseline Assessment (Zero Test) Report 2021-22

Importance:

Students enter our classrooms with a wide range of backgrounds. One strategy for finding out where your students are starting from is to give them a "baseline assessment" at the beginning of the term. The baseline assessment can determine whether a student have particular areas in which they are underachieving.

Baseline assessments also referred to as an on-entry assessment can provide a useful picture of what a student knows or can do at a certain point in time, as well as gaps in their learning. This information should be used to inform subsequent teaching and learning activities. Without good baseline assessment — a strong starting point — it is impossible to measure progress well: if you don't know where someone started, knowing whether their end point represents 'good progress' or not is not feasible.

Objective:

Baseline Assessment (Zero Test) is an instrument for collecting baseline data and the method used by teachers to find out a student's learning needs, their natural ability, potential and check whether they are underachieving in relation to their potential. The purpose of baseline assessment is to establish a point from which future measurements and predictions can be calculated.

Mechanism:

The baseline assessment gives teachers a brief understanding of a student's entry-level. A baseline assessment is carried out when a student gets admitted to the course B. Sc.

Part I. This is usually referred to as a Zero Test. It highlights strengths and areas for improvement so teachers are aware of every individual's requirements.

Zero Test of 20 minutes duration for every incumbent student, comprising of 20 MCQ type questions for 20 marks relating to computer science common know how. 50% score qualifies the test. The zero test is conducted approximately in the last week of July every year to ensure that the maximum number of incumbents are covered in the test.

The students who fail in zero test will undergo a bridge course to increase / compensate their knowledge level to cope up with the forthcoming course content during the course B.Sc.1 for the subject Computer Science.

The assessment questions below are designed to assess students' prior knowledge about computer science subject through zero test.

Smt. Narasamma Hirayya Education Society, Amravati's Smt. Narsamma Arts, Commerce and Science College, Kirannagar, Amravati Department of Computer Science Academic Session 2021-22

B. Sc. Part - I Sem. I

Zero Test Questionnai	re Date of Exam: (04-10-2021	Time: 3	.30 – 4.15 PM
- -	naire contains 20 MCQ type carries 01 mark	questions		estions are compulsory ying Score: 50%
Nameof Student:				
1. Who is father of mode	•			
	B. James Gosling		ge	D. Gordon E. Moore
	which is used to do particul			
	B. Program			D. Software
3 controls the	way in which the computer	system functions	and prov	ides a means by which users can
interact with the compute				
A. Operating system	B. Motherboard	C. Platform		D. Application software
4. The difference betwee	n people with access to co	mputers and the	Internet a	and those without this access is
known as the:				
A. digital divide	B. Internet divide	C. Cyberway divid	de	D. Web divide
5. The term 'Pentium' is r	elated to			
A. DVD	B. Hard Disk	C. Microprocesso	or	D. Mouse
6. What does HTTP stand				
A. Head Tail Transfer Prot	tocol	B. Hypertext Tran	nsfer Prot	ocol
C. Hypertext Transfer Plot	tter	D. Hypertext Trai	nsfer Plot	
7is the process of	dividing the disk into tracks	and sectors.		
A. Allotting	B. Crashing	C. Formatting		D. Tracking
8. Which computer memo	ory is used for storing progr	ams and data cur	rently bei	ng processed by the CPU?
A. Internal memory	B. Mass memory	C. Non-volatile m	nemory	D. PROM
9. Which of the following	is NOT a component of the	Central Processin	g Unit of	the computer?
A. Universal Serial Bus	B. Uninterrupted Power S	upply C. CU		D. A & B
10. When cutting and pas	sting, cutting section is temp	oorarily stored in		
A. Dashboard	B. Clipboard	C. Hard drive		D. Diskette
11 Is the execution	on of at least two different	programs simulta	neously,	
A. Multiprocessing	B. Multi programming	C. Recovery		D. Integrity

12. The brain of any computer system is												
A. ALU			B. Men	nory		C. CPU			D. Con	trol unit		
13. Wh	ich of the	e followii	ng is the 1	L's compl	ement o	f 10?						
A. 01			B. 110			C. 11			D. 10			
14. Wh	ich part i	nterpret	s progran	n instruct	tions and	initiate o	control o	perations				
A. Input	t		B. Stor	age unit		C. Logi	c unit		D. Con	trol unit		
15. The	binary s	ystem us	es power	s of								
A. 2			B. 10			C. 8			D. 16			
16. A co	mputer	program	that con	verts ass	embly la	nguage to	o machin	e languag	ge is			
A. Com	piler		B. Inter	preter		C. Asse	embler		D. Com	parator		
17. Wh	ich comp	uter has	been des	signed to	be as co	mpact as	possible	;?				
A. Mini			B. Supe	er compu	ter	C. Mici	rocompu	ter	D. Mai	nframe		
18. Wh	ich meth	od is use	d to conr	nect a rer	note con	nputer?						
A. Devi	ce		B. Dialı	ıρ		C. Diag	gnostic	ic D. Logic circuit				
19. Wh	ich of the	e followii	ng is still ı	useful foi	adding ı	numbers	?					
A. EDSA	AC .		B. ENIA	۱C		C. Aba	cus		D. UNI	VAC		
20. ASC	II stands	for:										
A. American standard code for information interchange					ange	B. All-	purpose	scientific	c code 1	for infori	mation	
interch	interchange C. American security code for information				intercha	nge	D. Ame	erican Sc	ientific co	de for		
informa	information interchange											
Answer	Key:											
1. C	2. B	3. A	4. A	5. C	6. B	7. B	8. A	9. D	10. B	11. A	12. C	13.
A14. D	15. A	16. C	17. C	18. B	19. C	20. A						

The assessment attendance are as follows...

Smt. Narsamma Arts, Commerce and Science College, Kirannagar, Amravati

Department of Computer Science Academic Session 2021-22

Subject: Computer Science Date: 04 October 2022

Max. Marks: 20 Time: 3.30PM

Zero Test Participant Attendance List

Sr.No.	Name of the Student	Sign of Student
1	Abhishek Shashidharrao Neware	Present
2	Akash Purushottam Kalpande	Present
3	Aman Pravindra Ramteke	Absent
4	Ansh Devidas Gupta	Present
5	Darshan Dadarao Kasdekar	Present
6	Harichandra Bisram Bhilawekar	Present
7	Jayesh Sunil Dindekar	Present
8	Jivan Nandkishor Bethekar	Present
9	Karan Prabhakar Babar	Absent
10	Neha Sanjay Wankhade	Present
11	Piyush Pramod Meshram	Absent
12	Pranay Rajendra Talware	Absent
13	Pratik Rajesh Ganorkar	Present
14	Pritam Dnyaneshwar Jirapure	Present
15	Rohit Dnyaneshwar Kadam	Absent
16	Rupesh Jayram Bhilavekar	Present
17	Sachin Harikisan Patankar	Present
18	Shravani Dhanraj Lokhande	Absent
19	Sneha Dhanrajpant Nagle	Present
20	Sonali Mohanrao Gulhane	Absent
21	Sudhir Ananda Meshram	Present
22	Sukhada Rajesh Hambarde	Absent

23	Vaibhav Devendra Rupnarayan	Absent
24	Vedant Ravindra Gaikwad	Present
25	Vicky Suresh Mandve	Absent
26	Vishal Vinayak Dhadase	Present
27	Vishwas Ramkisan Dahikar	Absent
28	Vyenkatesh Suresh Kohari	Absent
29	Yash Pramod Deulkar	Absent
30	Aditi Damapure	Present
31	Nikita Narenra Bambal	Present

2. Zero Test Participant List and Result

The assessment results are as follows...

Smt. Narsamma Arts, Commerce and Science College, Kirannagar, Amravati
Department of Computer Science Academic Session 2021-22
Subject: Computer Science Date: 04 October 2022

Max. Marks: 20 Time: 3.30PM

Zero Test Participant List and Result

Sr.No.	Name of the Student	Attendance	Marks Obtd.	Result
1	Abhishek Shashidharrao Neware		06	Fail
2	Akash Purushottam Kalpande		10	Pass
3	Aman Pravindra Ramteke		Absent	Absent
4	Ansh Devidas Gupta		05	Fail
5	Darshan Dadarao Kasdekar		10	Pass
6	Harichandra Bisram Bhilawekar		04	Fail
7	Jayesh Sunil Dindekar		09	Pass
8	Jivan Nandkishor Bethekar		08	Pass
9	Karan Prabhakar Babar		Absent	Absent
10	Neha Sanjay Wankhade		08	Pass
11	Piyush Pramod Meshram		Absent	Absent
12	Pranay Rajendra Talware		Absent	Absent
13	Pratik Rajesh Ganorkar		05	Fail
14	Pritam Dnyaneshwar Jirapure		10	Pass
15	Rohit Dnyaneshwar Kadam		Absent	Absent
16	Rupesh Jayram Bhilavekar		06	Fail
17	Sachin Harikisan Patankar		09	Pass
18	Shravani Dhanraj Lokhande		Absent	Absent
19	Sneha Dhanrajpant Nagle		11	Pass
20	Sonali Mohanrao Gulhane		Absent	Absent
21	Sudhir Ananda Meshram		12	Pass
22	Sukhada Rajesh Hambarde		Absent	Absent
23	Vaibhav Devendra Rupnarayan		Absent	Absent
24	Vedant Ravindra Gaikwad		09	Pass
25	Vicky Suresh Mandve		Absent	Absent
26	Vishal Vinayak Dhadase		10	Pass
27	Vishwas Ramkisan Dahikar		Absent	Absent
28	Vyenkatesh Suresh Kohari		Absent	Absent
29	Yash Pramod Deulkar		Absent	Absent
30	Aditi Damapure		05	Fail
31	Nikita Narenra Bambal		04	Fail

Total Admitted Students :- 31 Total Appeared Students :- 18 Total Absent Students :- 13 Total Pass Students :- 11 Total Fail Students :- 07

Signature: In-charge Teacher HOD

B. Bridge Course in Computer Science: 2021-22

Smt. Narsamma Arts, Commerce and Science College, Amravati

Department of Computer Science Academic Session 2021-22

Report on Bridge Course in Computer Science: 2021-22

Course Schedule

Name of the Course: Bridge Course in Computer Science

All the students admitted to the course B.Sc.1 in the subject computer science who failed to clear the zero test,

Course Duration: 01 Week (From 05th to 12th October, 2021 during 6.00 to

7.00PM.)

Bridge Course Assessment Date: 11th October, 2021, 6.00 PM

Curriculum for the Bridge course:

Computer science fundamentals, Computer Hardware, Input Output Devices, Windows Operating system, MS Office, Fundamental programming concepts, Programming language fundamentals, Computer Network fundamentals, Use of Internet, e-banking, e-commerce, Some useful and relevant websites

List of Participants:

On the basis of zero test results, following students are identified for bridge course to be conducted

Sr.No.	Name of the Student	Sr.No.	Name of the Student
1	Abhishek Shashidharrao Neware	9	Karan Prabhakar Babar
2	Ansh Devidas Gupta	10	Piyush Pramod Meshram
3	Harichandra Bisram Bhilawekar	11	Pranay Rajendra Talware
4	Pratik Rajesh Ganorkar	12	Rohit Dnyaneshwar Kadam
5	Rupesh Jayram Bhilavekar	13	Shravani Dhanraj Lokhande
6	Aditi Damapure	14	Sonali Mohanrao Gulhane

7	Nikita Narenra Bambal	15	Sukhada Rajesh Hambarde
8	Aman Pravindra Ramteke	16	Vaibhav Devendra Rupnarayan

Attendance Sheet:

Department of Computer Science Attendance Sheet for Bridge Course in Computer Science Academic Session 2021-22

Duration of the Course: 05th to 12th October. 2021

	Duration of the course. o	<u> </u>							
Sr.No.	Name of the Student				Dat	е			Days Present
		5	6	7	8	9	11	12	
1	Abhishek Shashidharrao Neware	Р	Р	Α	Р	Р	Р	Р	6
2	Ansh Devidas Gupta	Р	Р	Р	Р	Α	Р	Р	6
3	Harichandra Bisram Bhilawekar	Р	Р	Р	Р	Р	Р	Р	7
4	Pratik Rajesh Ganorkar	Р	Р	Р	Р	Р	Α	Р	6
5	Rupesh Jayram Bhilavekar	Р	Р	Р	Р	Α	Р	Р	6
6	Aditi Damapure	Р	Α	Р	Р	Р	Α	Р	5
7	Nikita Narenra Bambal	Р	Р	Р	Р	Α	Р	Р	6
8	Aman Pravindra Ramteke	Р	Р	Α	Р	Р	Р	Р	6
9	Karan Prabhakar Babar	Р	Р	Р	Р	Р	Р	Р	7
10	Piyush Pramod Meshram	Α	Р	Р	Р	Р	Р	Р	6
11	Pranay Rajendra Talware	Р	Р	Α	Р	Α	Р	Р	5
12	Rohit Dnyaneshwar Kadam	Р	Р	Р	Р	Р	Р	Α	6
13	Shravani Dhanraj Lokhande	Р	Р	Α	Р	Α	Р	Р	5
14	Sonali Mohanrao Gulhane	Р	Р	Р	Р	Р	Α	Р	6
15	Sukhada Rajesh Hambarde	Р	Р	Р	Р	Р	Р	Р	7
16	Vaibhav Devendra Rupnarayan	Р	Р	Р	Α	Р	Р	Р	6

Following are the assessment questions for the bridge course in computer science – 2021

Smt. NarasammaHirayya Education Society, Amravati's Smt. NarsammaArts, Commerce and Science College, Kirannagar, Amravati **Department of Computer Science** Academic Session 2021-22 Bridge Course in Computer Science - 2021 Date of Exam: 14-10-2021, Time: 6.00PM

Note: 1. This questionnaire contains 20 MCQ type questions 2. All questions are compulsory 3. Each question carries 01 mark

Name of Student:

E. None of these

- 1. A light sensitive device that converts drawing, printed text or other images into digital form is
- B. Plotter C. Scanner A. Keyboard D. OMR
- 2. Which protocol provides e-mail facility among different hosts?
- C. TELNET A. FTP B. SMTP D. SNMP E. None of these

3. The basic archi	tecture of comp	ıter was de	veloped	l by			
A. John Von Neur	mann B. Char	les Babbage	е	C. Blaise	Pascal	D. Garden Moore	e
E. None of these							
4. In order to tell	Excel that we are	e entering a	formul	a in cell,	we must	begin with an ope	erator such as
A. \$	B. @	C. +		D. =		E.#	
5. In how many g	enerations a com	iputer can l	be classi	ified?			
A. 3	B. 4	C. 5		D. 6		E. None of these	
6. Fifth generatio	•						
A. Artificial Intelli	gence	B. Prograi	_	ntelligen	ce	C. System Knowl	edge
D. VVLSI		E. None o					
7. First generatio			which t				
A. Transistor	B. LSI	C. VLSI				E. None of these	
8. Microprocesso	r was introduced	in which g	eneratio	n of com	nputer?		
A. Second Genera	ation	B. Fourth	Genera	tion		C. Both (A) and (В)
D. Third Generati	-	E. All of th					
9. Second genera		re made of	-				
A. Vaccum Tubes			C. LSI		D. VLSI		E. None of these
10. Which of the	following memor	y is non-vo	latile?				
A. SRAM	B. DRAI	M (C. ROM		D. All of	the above	E. None of these
11. GUI stands fo	•						
A. Graph Use Inte		B. Graphi		ersal Inte	erface	C. Grapl	hical User Interface
D. Graphical Unic	-	E. None o					
12. Any data or ir			=	of a com	-		
A. Storage	B. Outp		C. Input		D. Inforr	nation	E. None of these
13. Time during v		-	-				
A. Execution Time			C. Real T		D. Waiti	-	E. None of these
14. Which of the	_			-	-		
A. Rectifier	B. Flip f	•	C. Comp		D. Atten		E. None of these
15. The memory		-		dvanced			er are expressed as
A. Bytes	B. Kilob		C. Bits		D. Mega	•	E. None of these
16. Which one of	_			oftware			
A. Red Hat Linux	B. Micr	osoft Office	<u> </u>		C. Adobe	e Pagemaker	D. Open Office
E. None of these							
17. Which of the	_		_				_
A. Photoshop is a			obe			nd open source so	
C. Linux is owned	•	rosoft		D. Wind	ows XP is	an operating sys	tem
E. None of the ab							
18. An error is als							
A. Bug	B. Debu	•	C. Curso	r	D. Icon	E. None	of these
19. Microsoft Wo	•						_
A. an operating s	•	B. Process	_			C. Application so	ftware
D. an input device		E. System	Softwa	re			
20. Who invented	•						_
A. Charles Babba	ge B. JH Va	an Tassell		C. Charle	es Ginsbe	erg D. Seym	our Cray
E. None of these							
Answer Key:							
1. Option C	2. Option B	3. Option	Α	4. Optio	n D	5. Option C	6. Option A
7. Option D	8. Option B	9. Option	В	10. Opti	on C	11. Option C	12. Option C
13. Option A	14. Option B	15. Optio	n D	16. Opti	on A	17. Option C	18. Option A
19. Option C	20. Option D						

The assessment results of the Bridge Course in Computer Science - 2021 are as follows...

Smt. Narsamma Arts, Commerce and Science College, Kirannagar, Amravati Department of Computer Science Academic Session 2021-22

Bridge Course in Computer Science - 2021 - Participant List and Result

Subject: Computer Science Date: 16-10-2021
Max. Marks: 20 Time: 3.30PM

Name of the Student	Attendance	Marks Obtd.	Result
Abhishek Shashidharrao Neware	Present	15	Pass
Ansh Devidas Gupta	Present	13	Pass
Harichandra Bisram Bhilawekar	Present	11	Pass
Pratik Rajesh Ganorkar	Absent	Absent	Absent
Rupesh Jayram Bhilavekar	Present	12	Pass
Aditi Damapure	Present	16	Pass
Nikita Narenra Bambal	Present	15	Pass
Aman Pravindra Ramteke	Present	13	Pass
Karan Prabhakar Babar	Present	14	Pass
Piyush Pramod Meshram	Present	06	Fail
Pranay Rajendra Talware	Present	08	Fail
Rohit Dnyaneshwar Kadam	Present	17	Pass
Shravani Dhanraj Lokhande	Present	16	Pass
Sonali Mohanrao Gulhane	Present	13	Pass
Sukhada Rajesh Hambarde	Present	16	Pass
Vaibhav Devendra Rupnarayan	Present	07	Fail
	Abhishek Shashidharrao Neware Ansh Devidas Gupta Harichandra Bisram Bhilawekar Pratik Rajesh Ganorkar Rupesh Jayram Bhilavekar Aditi Damapure Nikita Narenra Bambal Aman Pravindra Ramteke Karan Prabhakar Babar Piyush Pramod Meshram Pranay Rajendra Talware Rohit Dnyaneshwar Kadam Shravani Dhanraj Lokhande Sonali Mohanrao Gulhane Sukhada Rajesh Hambarde	Abhishek Shashidharrao Neware Ansh Devidas Gupta Present Harichandra Bisram Bhilawekar Pratik Rajesh Ganorkar Rupesh Jayram Bhilavekar Aditi Damapure Nikita Narenra Bambal Aman Pravindra Ramteke Karan Prabhakar Babar Present Piyush Pramod Meshram Pranay Rajendra Talware Rohit Dnyaneshwar Kadam Shravani Dhanraj Lokhande Sonali Mohanrao Gulhane Sukhada Rajesh Hambarde Present Present Present Sukhada Rajesh Hambarde Present	Abhishek Shashidharrao Neware Present 15 Ansh Devidas Gupta Present 13 Harichandra Bisram Bhilawekar Present 11 Pratik Rajesh Ganorkar Absent Absent Rupesh Jayram Bhilavekar Present 12 Aditi Damapure Present 16 Nikita Narenra Bambal Present 15 Aman Pravindra Ramteke Present 13 Karan Prabhakar Babar Present 14 Piyush Pramod Meshram Present 06 Pranay Rajendra Talware Present 17 Shravani Dhanraj Lokhande Present 16 Sonali Mohanrao Gulhane Present 13 Sukhada Rajesh Hambarde Present 16

Signature: In-charge Teacher HOD

C. Report on Remedial Classes

Smt Narsamma Arts, Commerce and Science College, Amravati

Department of Computer Science Academic Session 2021-22

Report on Remedial Classes in Computer Science: 2021-22

Course Schedule

Remedial classes are conducted for extra emphasized teaching to remove the difficulties the slow learners face during learning the course content and to improve their confidence.

Name of the Course: Remedial Classes in Computer Science

Course Duration: 10 Days (From 18h to 26th October, 2021 during 6.00 to 7.00PM.)

Slow learners identified from B.Sc. II Sem. IV university exam. (Summer-2020) Results, now admitted

to B.Sc. III Sem. V in the subject Computer Science

List of Participants:

Following students of B.Sc. III (Sem.6) are identified for Remedial Classes (Computer Science) to be conducted:

Sr.No.	Name of the Student	Sr.No.	Name of the Student
1	Gauri Sureshrao Tayade	6	Sakshi Dharmpal Gondane
2	Vaishnavi Ramkrushna Amdare	7	Diya Vinod Tayade
3	Sayyad Yejas Ali	8	Krutika Kishor Shrirao
4	Janavi Vijay Ingole	9	Raj Sudhakar Raut
5	Gayatri Rajkumar Hukare	10	Sakshi Milindrao Ahiwar

The attendance Sheet:

Department of Computer Science Attendance Sheet for Remedial Classes in Computer Science Academic Session 2021-22

Duration of the Course: 18th to 26th January, 2022

Sr.No.	Name of the Student		Attendance for the date							Days	Days
										Pres.	Abst.
		18	19	20	21	22	24	25	26		
1	Gauri Sureshrao Tayade	Р	Р	Α	Р	Р	Р	Р	Р	7	1
2	Vaishnavi Ramkrushna Amdare	Р	Р	Р	Р	Α	Р	Р	Р	7	1
3	Sayyad Yejas Ali	Р	Р	Р	Р	Р	Р	Р	Р	8	0
4	Janavi Vijay Ingole	Р	Р	Р	Р	Р	Α	Р	Р	7	1
5	Gayatri Rajkumar Hukare	Р	Р	Р	Р	Α	Р	Р	Р	7	1
6	Sakshi Dharmpal Gondane	Р	Α	Р	Р	Р	Α	Р	Р	6	2
7	Diya Vinod Tayade	Р	Р	Р	Р	Α	Р	Р	Р	7	1
8	Krutika Kishor Shrirao	Р	Р	Α	Р	Р	Р	Р	Р	7	1
9	Raj Sudhakar Raut	Р	Р	Р	Р	Р	Р	Р	Р	8	0
10	Sakshi Milindrao Ahiwar	Α	Р	Р	Р	Р	Р	Р	Р	7	1

Internal Assessments:

(Internal class test, Assignment, Viva, Industrial visit, field visit, Project, Seminar, Study tour)

Sr.	Type of	Date	No. of	No. of	No. of	Percentage of
No.	Internal		Students	Students	Student	Result
	Assessments		Admitted	Present	Passed	
1	B.Sc. I S I		31	24	24	100.00
2	B.Sc. II S III		47	42	41	97.61
3	B.Sc. III S V		33	31	31	100.00

Asignment

1	D Co I C I	21	21	21	100.00
⊥	B.SC. 1 S 1	31	31	31	100.00

Project Submission

	Sr. No.	Class/Sem	No. of Students Admitted	No. of Students Present	No. of Student Pass	Percentage of Result
	1	B.Sc. II S III	47	46	46	97.88
Ī	2	B.Sc. III S V	33	33	33	100.00

Seminar / Tour / Group Discussion

Sr.	Class/Sem	No. of Students	No. of Students	No. of	Percentage of
No.		Admitted	Present	Student Pass	Result
1	B.Sc. II S III	47	46	46	97.88
2	B.Sc. III S V	33	33	33	100.00

2021-22 Summer 2022

Internal Test

Sr.	Class/Sem	No. of Students	No. of Students	No. of	Percentage of
No.		Admitted	Present	Student Pass	Result
1	B.Sc. ISI	31	23	21	91.30
2	B.Sc. II S III	47	37	36	97.39
3	B.Sc. III S V	33	31	29	93.54

Asignment

ſ	1	B.Sc. I S I	31	31	31	100.00

Project Submission

Sr.	Class/Sem	No. of Students	No. of Students	No. of	Percentage of
No.		Admitted	Present	Student Pass	Result
1	B.Sc. II S III	47	31	31	100.00
2	B.Sc. III S V	33	26	26	100.00

Seminar / Tour / Group Discussion

Sr. No.	Class/Sem	No. of Students Admitted	No. of Students Present	No. of Student Pass	Percentage of Result
1	B.Sc. II S III	47	32	32	100.00
2	B.Sc. III S V	33	28	28	100.00

Unit Test/Common Test/Internal Assessment Test/Special Tests (PG)

Class/Semester	No. of Students appeared	Passed	% of Passed students
M.Sc-I (sem-I)	29	29	100%
M.Sc II (sem-III)	27	27	100%
M.Sc-I (sem-II)	29	28	100%
M.Sc II (sem-IV)	27	20	100%

ICT Usage Profile

1. Details of ICT tools and material available in the department for teaching and learning

Computing facility

UG Laboratory:	55 Desktop Computers
PG Laboratory:	12 Desktop Computers
Staff Room:	03 Desktop Computers
Laptops	02 Nos.
Printers (Laser)	05 Nos.
LCD Projectors	01 Nos.
Speakers	02 Sets
Modem	01 Nos.
Network Switches	02 Nos
USB HDD	01 No.
Digital Camera	01 No.
External DVD ROM Drive	01 No.

The computers available in both the laboratories are connected in LAN and support 100 MBPS FTTH optical fiber cable Internet connectivity of BSNL

Extra network outlets to other departments of the college have been provided from the same connection for sharing.

2. Details of social media used by the department for effective communication with the students

e-platforms used: Google Classroom, Google Meet, Whats App Group

3. Details of Online teaching / learning tools used by the department for effective teaching and learning process

e-platforms used: Google Classroom, Google Meet, Whats App Group

Signature and Stamp HoD

Smt. Narsamma Arts, Commerce and Science college, Kiran Nagar, Amravati **Department of Mathematics**

Paper of Base Line Test 2021-2022

B. Sc. I Sem I

1.
$$\lim_{x \to a} \sin x = \dots$$

a)
$$\sin a$$
 b) $\sin x$ c) $\cos x$ d) $\cos a$

$$2. \qquad \frac{d}{dx}x^n = \dots$$

a)
$$nx$$
 b) nx^{n-1} c) xn^{x-2} d) xn_{x-2}

3.
$$\frac{d}{dx}[\cos x] = \dots$$

a)
$$-\sin x$$
 b) $\cos x$ c) $-\sin a$ d) $\cos a$

$$4. \quad \frac{d}{dx}e^x = \cdots.$$

a)
$$e^n$$
 b) e^x c) a^e d) e^z

$$5. \quad \int x^n \ dx = \dots$$

a)
$$\frac{x^{n+1}}{n+1} + c$$
 b) $\frac{n^{n-1}}{x} + c$ c) $\frac{n+1}{x^{n+1}} + c$ d) $\frac{x}{n^{n-1}}$

6.
$$\int \frac{1}{x} dx = \dots$$

a)
$$\log |x| + c$$
 b) $\log \frac{1}{x} + c$ c) $\log |a| + c$ d) $-\log |x| + c$

$$7.\int \sin x \, dx = \cdots$$

a)
$$\sin x + c$$
 b) $-\sin x + c$ c) $\cos x + c$ d) $-\cos x + c$

$$8. \int a^x dx = \cdots$$

a)
$$\frac{\log a}{a^x} + c$$
 b) $\frac{\log a}{x^a} + c$ c) $\frac{x^a}{\log x} + c$ d) $\frac{a^x}{\log a} + c$

9.
$$\int \sec x \cdot \tan x \, dx = \cdots$$

a)
$$\tan x + c$$
 b) $\sec x + c$ c) $\tan^2 x + c$ d) $\sec^2 x + c$

10.
$$\int cosec^2 \times dx = \dots$$

a)cot
$$x + c$$
 b) cosec $x + c$ c) $- \csc x + c$ d)- $\cot x + c$

Smt. Narsamma Arts Commerce and Science College, Kiran Nagar, Amravati Bridge Course/Enrichment Course 2021-2022

Department of Mathematics Class - B.Sc. Ist year sem-I Attendence Sheet

Time-10.42 to 11.30 Am

Conducted by -

S.No.	Name of Student	30/12/2021	31/12/2021	01/01/2022
1	Ruposh T Bhilawekar	Bust	Burs	Butt
2.	Jivan N. Betyekar	Tolkheke	The though the base	or Monteson
3.	Harichandra B. Bhilaweka	r Bhuekar	Bhukar	HSpultax
4.	Sachin . H. patankar	suchin	Sachin	Suchin
5-	Showli K. Wankhade	Bizthers	Wantrade	tablitade
6.	Ansh D. Guyota.	ANT	droph	dusta
7.	Athisher s. Neware	ASAP	Agnu	13/10
8.	Poranay R. Talware	Balous	15 July	(B)
9,	kovan Babar	Babase.	Babar	Babar
10.	Vedant Shingnapure	4	18	1
11.	Sykhola Hambarde	Stambarde	SHamburd	
12.	Vicky Mandave	me	My	Mu
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Smt. Narsamma Arts Commerce and Science College, Kiran Nagar, Amravati Bridge Course/Enrichment Course 2021-2022

Department of Mathematics Class - B.Sc. Ist year sem-I

Zero Test / Baseline Test

Time-10.42 to 11.30 Am Max Martos: 20 Conducted by —

Da: 15/1/2022

S.No.	Name of Student	Maeks Obtained	Result	Remarks
1) 2) 3) 4) 5) 6) 7) 10) 11) 12) 13) 14)	Prianay R. Talware Harrichandra B Bhilawekar Abhishek S. Neware Himanshy Bhytbale Suknada Hamborde Aditi Demapwie Rypesh Bhilawekar Ansh Gupta Tayesh Bindekor Vicky Mandave Sachin Patankor Shiyli k. Wankhade Karan Babar Vedant Shingnapwie	04 14 06 16 4 20 14 18 06 14 14 18 04	fail Pass fail Pass fail Pass Pass Pass Pass Pass Pass Pass Pas	Alow learner fast learners Alow -11- fast learners fast learners Fast learners Now -11- Fast Learners Alow -11- Fast Learners Fast Learners Fast Learners Fast Learners Fast Learners Fast Learners Fast Learners
	# 5 2 1 5 0	1 31 =	(11)	1 = 1



Smt. Narsamma Arts, Commerce and Science College, Kiran Nagar, Amravati.

Best Practice of Department of Mathematics Bridge Course and Baseline Test

Date and duration of Activity: Date: 30/12/2021 to 01/01/2022 (Three Days) 15/01/2022 (One Day)

Sr. No.		Details of the Program		
1.	Program organized by Department of Mathematics			
2	Program Level Departmental Level			
2	Title of the Program &	Topic/Theme: Bridge Course / Baseline Test		
3.	other details	Joint Venture: NO		
		Bridge Course – Offline		
4.	Nature of Program	Baseline Test - Online		
	Tractic of Frogram	If online mention link: https://forms.gle/arNaKKNKfohXVS9U6		
5.	Aim / Objective of To find the slow learner and to improve the basic			
	Program	knowledge of the students. Students: 14		
6.	No. of Participants	Teachers: 02		
		Total: 16		
	Publication through:	NA		
7.	(either e-media or paper			
	media or any other)			
8.	Detail information of Program	A Bridge Course of Mathematics Department 2021-2022 was organized on 30/12/2021 to 01/01/2022. Bridge Course was conducted for B.Sc. I (Semester - I) students by offline mode. This course base on the syllabus of 11 th and 12 th syllabus. On the basis of Bridge Course Baseline test was conducted on 15/01/2022 at 10.30 AM to 11.15 AM. Mode of the test was online on Google Form. The link of the test was https://forms.gle/arNaKKNKfohXVS9U6 . All students had been given test honestly and sincerely. Out of 14 students, 08 students scored good marks.		

9.	Output of the Program	14 students has attended Baseline Test. Out of which 06 students are found slow learners.					
10.	Name of Members of Organization committee:	Convener – Dr. V. A. Sharma, HOD of Mathematics, Smt. Narsamma Arts, Commerce And Science College, Kiran Nagar, Amravati.					
11.	Report Signatory/ies						
12.	Financial Assistance (In Rs. If received)	NA					

 $NOTE-also\ provide\ the\ photographs\ (in\ soft\ copy)\ of\ the\ event/activity.$





Timestamp	Email Address	Score	Name
1/15/2022 12:44:03	rkasdekar955@gmail.com	6 / 20	Rahul
1/15/2022 12:45:24	rkasdekar955@gmail.com	2 / 20	Rahul
1/15/2022 12:49:27	Pranaytalware2004@gmail.com	4 / 20	Pranay
1/15/2022 12:49:27	haribhilawekar2021@gmail.com	14 / 20	Harichandra Bisram Bhilawekar
1/15/2022 12:53:12	Abhishekn62563@gmail.com	6 / 20	Abhishek S. Neware
1/15/2022 12:53:37	himanshubhujbal066@gmail.com	16 / 20	Himanshu bhujbale
1/15/2022 12:54:33	sukhadahambarde@gmail.com	4 / 20	Sukhada Hambarde
1/15/2022 12:55:14	aditi.demapure04@gmail.com	20 / 20	Aditi Demapure
1/15/2022 12:58:44	rupeshbhilawekar2003@gmai.com	14 / 20	Rupesh Bhilawekar
1/15/2022 13:00:11	anshg0007@gmail.comcom	18 / 20	Ansh
1/15/2022 13:02:03	dindekarjayesh@gmail.com	2 / 20	Jayesh Dindekar
1/15/2022 13:02:33	vmandave7@gmail.com	6 / 20	Vicky sureshamandave
1/15/2022 13:05:33	sachinpatankar194@gmail.com	14 / 20	Sachinpatankar
1/15/2022 13:06:21	shrutikw6@gmail.com	14 / 20	Shruti k. Wankhade
1/15/2022 13:17:48	karanbabar83@gmail.com	18 / 20	Karan Babar
1/15/2022 13:21:13	vedantshingnapure1@gmail.com	4 / 20	Vedantshingnapure
1/15/2022 13:41:49	kalpandebharati01@gmail.com	18 / 20	Akash purushottamkalpande
1/15/2022 13:44:43	kalpandebharati01@gmail.com	18 / 20	Akash purushottamkalpande
1/15/2022 14:03:23	jivanbethekar266@gmail.com	12 / 20	Jivan Bethekar
1/15/2022 14:05:32	jivanbethekar266@gmail.com	14 / 20	Jivan Bethekar

Result of Baseline Test on Google Form:

Assessment Profile (Internal & University Assessments)

1. Internal Assessments: i) Schedule ii) Details iii) Analysis

(Internal class test, Assignment, Viva, Industrial visit, field visit, Project, Seminar, Study tour)

B.Sc. I Sem I (Winter- 2021)

Sr.	Type of	Date	No. of	No. of	No. of	Percentage
No.	Internal		Students	Students	Student	of Result
	Assessments		Admitted	Present	Passed	
1.	Assignment	21/12/2021	23	11	11	100%
2.	Internal Test I	27/12/2021	23	13	13	100%
3.	Internal Test II	29/12/2021	23	13	13	100%

B.Sc. II Sem III (Winter- 2021)

Sr.	Type of	Date	No. of	No. of	No. of	Percentage
No.	Internal		Students	Students	StudentsPassed	of Result
	Assessments		Admitted	Present		
1.	Assignment	21/12/2021	47	33	33	100%
2.	Group	21/12/2021	47	35	35	100%
	Discussion					
3.	Internal Test I	27/12/2021	47	40	40	100%
4.	Internal Test	29/12/2021	47	42	42	100%
	II					
5.	Project	21/12/2021	47	35	35	100%

B.Sc. III Sem V (Winter- 2021)

Sr. No.	Type of Internal Assessments	Date	No. of Students Admitted	No. of Students Present	No. of Students Passed	Percentage of Result
1.	Assignment	21/12/2021	30	22	22	100%
2.	Group Discussion	21/12/2021	30	18	18	100%

3.	Internal Test I	27/12/2021	30	29	29	100%
4.	Internal Test II	29/12/2021	30	29	29	100%
5.	Project	21/12/2021	30	22	22	100%

M.Sc. I Sem I (Winter- 2021)

Sr.	Type of Internal	Date	No. of	No. of	No. of	Percentage of
No.	Assessments		Students	Students	Students	Result
			Admitted	Present	Passed	
1.	Assignment	04/01/2022	40	36	36	100%
2.	Group Discussion	04/01/2022	40	36	36	100%
3.	Internal Test	27/12/2021 to 31/12/2021	40	40	40	100%
4.	Viva	04/01/2022	40	36	36	100%

M.Sc. II Sem III (Winter- 2021)

Sr.	Type of Internal	Date	No. of	No. of	No. of	Percentage of
No.	Assessments		Students	Students	Student	Result
			Admitted	Present	Passed	
1.	Assignment	04/01/2022	59	53	53	100%
2.	Group Discussion	04/01/2022	59	52	52	100%
3.	Internal Test	27/12/2021 to 31/12/2021	59	59	59	100%
4.	Viva	04/01/2022	59	53	53	100%

B.Sc. I Sem II (Summer- 2022)

Sr.	Type of	Date	No. of	No. of	No. of	Percentage
No.	Internal		Students	Students	Student	of Result
	Assessments		Admitted	Present	Passed	
1.	Assignment	04/05/2022	23	17	17	100%
2.	Internal Test I	28/04/2022	23	17	17	100%
3.	Internal Test II	02/05/2022	23	17	17	100%

B.Sc. II Sem IV (Summer- 2022)

Sr.	Type of	Date	No. of	No. of	No. of	Percentage
No.	Internal		Students	Students	Students	of Result
	Assessments		Admitted	Present	passed	
1.	Assignment	04/05/2022	47	39	39	100%
2.	Seminar	04/05/2022	47	39	39	100%
3.	Internal Test I	28/04/2022	47	36	36	100%
4.	Internal Test II	02/05/2022	47	36	36	100%
5.	Project	04/05/2022	47	39	39	100%

B.Sc. III Sem VI (Summer - 2022)

Sr.	Type of	Date	No. of	No. of	No. of	Percentage
No.	Internal		Students	Students	Student	of Result
	Assessments		Admitted	Present	Passed	
1.	Assignment	04/05/2022	30	29	29	100%
2.	Seminar	04/05/2022	30	29	29	100%
3.	Internal Test I	28/04/2022	30	29	29	100%
4.	Internal Test II	02/05/2022	30	29	29	100%
5.	Project	04/05/2022	30	29	29	100%

M.Sc. I Sem II (Summer- 2022)

Sr.	Type of Internal	Date	No. of	No. of	No. of	Percentage of
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No.	Assessments		Students	Students	Student	Result
			Admitted	Present	Passed	
1.	Assignment	04/05/2022	40	37	37	100%
2.	Seminar	04/05/2022	40	37	37	100%
3.	Internal Test	25/04/2022 to 29/04/2022	40	37	37	100%
4.	Viva	04/05/2022	40	37	37	100%
5.	Case Study	04/05/2022	40	37	37	100%

M.Sc. II Sem IV (Summer-2022)

Sr.	Type of	Date	No. of	No. of	No. of	Percentage of
No.	Internal		Students	Students	Student	Result
	Assessments		Admitted	Present	Passed	
1.	Assignment	04/05/2022	59	54	54	100%
2.	Seminar	04/05/2022	59	54	54	100%
3.	Internal Test	25/04/2022 to 29/04/2022	59	54	54	100%
4.	Viva	04/05/2022	59	54	54	100%
5.	Case Study	04/05/2022	59	54	54	100%

Annexure 9 ICT Usage Profile

- 1. Details of ICT tools and material available in the department for teaching and learning:
 - Laptop, Android Mobiles, Wi -Fi, Projector, Google classroom
- 2. Details of social media used by the department for effective communication with the students: Google Meet App, Zoom App.
- 3. Details of Online teaching / learning tools used by the department for effective teaching and learning process:
 - White Board App, Equation Editor.
- 4. Specify Link and Details of Google Class room for teaching and learning:
 - 1) B.Sc. I: https://classroom.google.com/c/NDUwMzQ1ODE2OTI0?cjc=ls37dgw
 - 2) B.Sc. II: https://classroom.google.com/c/MjUyNjg5MTk1Mjc4?cjc=3mkhslu
 - 3) B.Sc. III: https://classroom.google.com/c/MjYyNjUzNTM1MjEz?cjc=zs7dgq3
 - 4) M.Sc. I: https://classroom.google.com/c/NDUwMzQ4NzgzNjAw?cjc=eqzskeq
 - 5) M.Sc. II: https://classroom.google.com/c/MjUyNjg5MTk1MTk5?cjc=mjfeoud

Sr. No	Name / Title/ details	Name of the class	Relevant topic in the
	sources available	sources used for	syllabus if any
1.	Android Mobile, Wi- Fi	B.Sc. I	All Units
2.	Android Mobile, Wi- Fi	B.Sc. II	All Units
3.	Android Mobile, Wi- Fi	B.Sc. III	All Units
4.	Android Mobile, Wi- Fi	M.Sc. I	All Units
5.	Android Mobile, Wi- Fi	M.Sc. II	All Units

Signature and Stamp HoD

Shrimati Narsamma Arts, Commerce & Commerce College, Kiran Nagar, Amravati

ANNUAL REPORT OF THE DEPARTMENT

Department: PHYSICS

Academic Session: 2021-22

Slow Learners Profile

Class:	B. Sc. 1 (1S-Physics)		No. of students admi	tted: 30
Sr. No.	Name of Student	Marks obtained in the subject in previous University examination	Marks obtained in Zero Test/Unit Test / Special Test / Exam conducted by Department (Max. Marks 30)	Teacher's Opinions on student
1	Pratik Rajesh Ganorkar	NA	14	
2	Darshan Dadarao Kasdekar	NA	12	
3	Himanshu Vinod Bhujbale	NA	12	
4	Jayesh Sunil Dindekar	NA	12	
5	Neha Sanjay Wankhade	NA	12	
6	Nikita Narendra Bambal	NA	12	
7	Piyush Pramod Meshram	NA	12	
8	Sachin Harikisan Patankar	NA	12	
9	Vedant Tukaramji Shingnapure	NA	12	
10	Vishal Vinayak Dhadase	NA	12	COVID-19
11	Vyenkatesh Suresh Kohari	NA	12	situation affects
12	Karan Prabhakar Babar	NA	11	
13	Mangesh Gajanan Surpatane	NA	11	
14	Rahul Lalchand Kasdekar	NA	11	
15	Shravani Dhanraj Lokhande	NA	11	
16	Sneha Dhanrajpant Nagle	NA	11	
17	Sonali Mohanrao Gulhane	NA	11	
18	Vedant Ravindra Gaikwad	NA	11	
19	Vicky Suresh Mandve	NA	11	
20	Vishwas Ramkisan Dahikar	NA	11	

Action Taken for improvement of Slow Learners

Sr.	Name of Student	Remedial Action Taken	Outcome Observed
No.			
1	Pratik Rajesh Ganorkar	Special seminars	
2	Darshan Dadarao Kasdekar	Increase in teachers' contact	
3	Himanshu Vinod Bhujbale	time	
4	Jayesh Sunil Dindekar	Providing practical	
5	Neha Sanjay Wankhade	experience in the laboratory	
6	Nikita Narendra Bambal	Providing youtube linksMCQ tests	Fifth Topper
7	Piyush Pramod Meshram	To assign slow learner to the	
8	Sachin Harikisan Patankar	advanced learner	
9	Vedant Tukaramji Shingnapure	davaneca icarrier	
10	Vishal Vinayak Dhadase		
11	Vyenkatesh Suresh Kohari		
12	Karan Prabhakar Babar		
13	Mangesh Gajanan Surpatane		
14	Rahul Lalchand Kasdekar		
15	Shravani Dhanraj Lokhande		Second Topper
16	Sneha Dhanrajpant Nagle		
17	Sonali Mohanrao Gulhane		
18	Vedant Ravindra Gaikwad		
19	Vicky Suresh Mandve		
20	Vishwas Ramkisan Dahikar		

Signature of	of Teacher/	S
--------------	-------------	---

Signature of HOD

1. Advanced Learners Profile

Class: B. Sc. 1S-Physics

No. of students admitted: 30

Sr. No.	Name of Student	Marks obtained in the subject in previous University examination	Marks obtained in Zero Test/Unit Test / Special Test / Exam conducted by Department	Teacher's Opinions on student
1	Pratiksha Arjun Nandane	NA	18	Hard Worker
2	Akash Purushottam Kalpande	NA	17	Working nicely
3	Shruti Kirtijan Wankhade	NA	17	Attentive
4	Pritam Dnyaneshwar Jirapure	NA	16	Working nicely
5	Sudhir Ananda Meshram	NA	16	Working nicely
6	Jivan Nandkishor Bethekar	NA	15	Attentive
7	Rohit Dnyaneshwar Kadam	NA	15	Working nicely
8	Sukhada Rajesh Hambarde	NA	15	Attentive
9	Vaibhav Devendra Rupnarayan	NA	15	Working nicely
10	Yash Pramod Deulkar	NA	15	Working nicely

Action Taken for improvement of Advanced Learners

Sr.	Name of Student	Supportive Action Taken	Outcome Observed
No.			
1 to 10	To advanced learners	Books from the Departmental Library are provided, special contact session for learning through youtube and I-NET	Sr. No. 3, 6, 7 are toppers in the Department

Signature of Teacher/s

Signature of HOD

Annexure 3 Baseline Assessment Profile

A. Zero Test Report

1. Question Paper of Zero Test

(This questionnaire contains 20 MCQ type questions, each carrying 01 mark, Qualifying Score: 50%. Questionnaire is intended to test the general know how of the examinee at the entry point of the sought course)

Department of Physics,

Arts, Commerce and Science College, Kiran Nagar, Amravati in association with LASER_an NGO and Victor Tutorials Pvt. Ltd. is conducting a

Test on Basics of PHYSICS (Baseline Zero Test)
[Marking Scale: It will be calculated as per %age scale]
Total Marks: 100 & time in minute: 50

Multiple Choice QUESTIONER (MCQs)

Note and think, Read this paragraph carefully.

Evaluate your primary level Physics with the scale provided at the end of this paragraph and enjoy following "fill in the blanks" with the usual words used by you in Physics, if necessary, any answer to justify your or asked word, write the proper reason which you think, at the back of the sheet by writing proper question number. The keys of the answers are provided in the bracket if needed by the Setter of these questions. With the primary thought of the Setter "nothing is ideal in the Universe". The percentage marks here doesn't matter. It can be a common learner's performance and if it is below four on 10 point scale, re-thinking from the start is needed again by paying more time & more brain storming, even discussions also if needed.

IMPORTANT: Answers of questions may vary; it purposes to think many times over the question and the matter to be solved.

- 1. The unit of weight and Force is same.
- 2. The unit of hemoglobin concentration is gm/dl or kg/lit.
- 3. The unit of perimeter of a circle and its radius is equal.
- 4. With the dimensional point, the unit of energy, work and the **Torque** is equivalent.
- The S. I. system of unit is termed as Systeme International de Unites.

- 6. In FPS system of unit second is equivalent to second in SI.
- 7. The base of S. I. system is 10, hence can be easily memorized
- 8. 1 inch = 2.54 cm
- 9. The number of fundamental physical quantities till date is 07
- 10. The symbol of unit of luminous flux is cd.
- 1 TB = 10⁻³ HB, where H = Hexa, T = Tera.
- 11. 1 16 10 HB, where H = Hexa, 112. 1 $\mu m = 10^{-6}$ m.
- 12. $1 \mu m = 10^{-6} m$.
- 14. If the weight of 3 kg wt and 4 kg wt are added together then total may be **less** (less/greater) than 7 kg wt.
- 15. Jagan poured 5 liter of milk into a can and then Amol removed 4 liter of milk to prepare a Milk-Tea, the volume of milk left in the can is $\mathbf{1}$ m³.
- 16. Can you maintain hierarchy in the Force, work, power, mass velocity and acceleration, please write in the order. Mass, velocity, acceleration, force, power & work.

Note for 17 to 21: Use following reference formula

$$R = \sqrt{P^2 + Q^2 + 2PQ\cos\theta}$$

and then write about following vector magic,

- 17. F
- 18. If 7 inclined at 90° with 8 and added together, then we get 11.
- 19. If two vectors of magnitude 7's are added directing oppositely then we will get zero.
- 20. Addition of 3 and 4 both pointing south may result into 5.
- 21. The magnitude of the unit vector A is IAI or A.
- 22. If Sejal goes in North 40 meter and then turned through 60 degree in the south and moved 30 meter, how much distance she covered. Answer = 70 meter.
- 23. The dimension of power is [M 1 L 2 T 3], hence the dimension of work is [M 1 L 2 T 2].

(Discuss answers with reasons in the Tutorial Lectures with Prof. D. B. Suryawanshi, Bajpeyee A. U. and Shamkuwar S. H. (Answer Key will be displayed on departmental notice board just after the completion of Test)

Page 1 of TWO

- 24. The dimension of force is [M 1 L 1 T 2], hence the dimension of magnetic induction is [M 1 T 2 I 1].
- 25. D
- 26. The dimension of electrical intensity is [M 1 L 1 T 3 I 1].
- 27. The dimension of Pressure is $[\mathbf{M}^1 \mathbf{L}^{-1} \mathbf{T}^{-2}]$.
- 28. The area and volume of a sphere of radius r can be written as $4\pi r^2$ and $4/3\pi r^3$.
- 29. Bajpeyee Sir's house is at 1 kilometer from the Amravati Bus Station, if he comes again to Bus station from his home the physical quantity become zero will be displacement.
- 30. The average velocity and the acceleration of the body attaining velocity v to u in time t can be written as (u+v)/2 & (v-u)/t.
- 31. The relation between linear and angular velocity is $v = r \cdot \omega$
- According to Newton's first law of motion, change in velocity is zero.
- 33. Minimum number of forces required to justify Newton's Third law of motion is **two** and are named as **action** and **reaction**.
- If the two bodies which collide sticks together then, is called as in-elastic collision.
- 35. The Earth can be an example of inertial frame of reference.
- 36. If the body on the Earth weighs as 9.6 Kg wt then its weight on the moon can be 1.6 Kg wt.
- 37. If a body of 20 kg on Earth is kept on the Mars then its mass will be ${\bf 20}$ kg.
- 38. If G is a notation of Universal Gravitational Constant and then its value is G = 6.67 x 10⁻¹¹ Nm²/kg².
 39. Earth is moving round the Sun in a circular orbit, the net work
- done by it is zero.

 40. Latest 100th satellite launched by India in the space is called Cartosat-2 / PSLV-C40.
- 41. 1 kilowatt hour = **3.6 x 10⁶** J
- 42. 1 horsepower = **746** watt

- 43. If a force F is applied at some angle θ to the body at a distance r from the axis of rotation then moment of a force can be written as **F.r.sinθ**.
- 44. The unit of frequency is reciprocal of the unit of **time**.
- The one crest / compression and one trough / rarefaction constitutes a wavelength.
- 46. The surface waves due to water ripple are transverse waves.
- 47. For good hearing one should have a good medium along with a good ear and a good source.
- 48. No material medium is required for traveling of waves like rays of ordinary visible light, x-rays, radio waves, microwaves in oven, TV signals.
- Seismic waves in sea which are a mixture of transverse and longitudinal waves are also called as Tsunami in Japanese.
- Absolute zero temperature = -273 °C.
- The temperature of the human body becomes 102 °F in clinical language, means temperature in 38~39°C
 In the equation PV = nRT, R is called as Universal Gas Constant.
- In the equation PV = nRT, R is called as Universal Gas Constant Its value is 8.314 J/mol.K or 2 cal/mol.K.

XXXX === 00 XX 00 === XXXX

2. Zero Test Participant List and Result

Name of the Student	Department Level	Marks	Result
	Marks out of 100	obtained	
		out of 20	
Akash Purushottam Kalpande	50	10	6
Darshan Dadarao Kasdekar	46	9	8
Himanshu Vinod Bhujbale	40	8	12
Jayesh Sunil Dindekar	44	9	10
Jivan Nandkishor Bethekar	44	9	11
Karan Prabhakar Babar	56	11	3
Mangesh Gajanan Surpatane	40	8	13
Neha Sanjay Wankhade	36	7	21
Piyush Pramod Meshram	60	12	1
Pratik Rajesh Ganorkar	30	6	22
Pritam Dnyaneshwar Jirapure	40	8	14
Rahul Lalchand Kasdekar	40	8	15
Rohit Dnyaneshwar Kadam	60	12	2
Sachin Harikisan Patankar	40	8	16
Shruti Kirtijan Wankhade	40	8	17
Sonali Mohanrao Gulhane	56	11	4
Sudhir Ananda Meshram	56	11	5
Sukhada Rajesh Hambarde	40	8	18
Vaibhav Devendra Rupnarayan	40	8	19
Vedant Tukaramji Shingnapure	40	8	20
Vicky Suresh Mandve	50	10	7
Yash Pramod Deulkar	46	9	9

B. Bridge Course in Physics: 2021-22

- 1. Course Schedule
 - a. Name of the Course: Bridge Course in Physics
 - b. Eligibility: Students admitted and to be admitted to B. Sc. 1S-Physics of 2021-22
 - c. Course Duration: Six working days (20-10-2021 to 26-10-2021)
- 2. Bridge Course Assessment Date: 26-10-2021
- 3. Curriculum for the Bridge course:

Arts Commerce and Science College Kiran Nagar Amravati Department: <u>PHYSICS Class: B. Sc. I (1S-Physics)</u> Bridge Course (20-10-2021 to 26-10-2021)

Date: 20-10-2021
Time: 10.00 am onwards
Venue: Department of Physics
Contents:

- Introduction to Induction / Bridge Course
- · What is this course? Need of course.
- · Contents of B. Sc. I 1S-Physics syllabus of SGBAU
- · Basic modifications to match higher grade syllabus
- Basic measuring instruments
- Basic measuring tools
- Need of the knowledge of measurements and errors
- Need of the knowledge of instruments
- · Various units, how to memories it from formulae
- Various formulae, how to memories it from units
- · Dimensional analytical sense
- · Approach toward handling basics of experiments and preparing for to work on it
- Why are precautions listed at the end of experiments, not at the beginning?

Assignments (google classroom):

- Fill in the empty columns
- · If possible, without taking help of a friend to fill it
- Go through Internet surfing and watch the videos of following measuring instruments carefully and
 then its schematic diagrams so that to aware about each part of it, it will be asked in the assessments
 for naming and labeling it.
- · One 100 pages book is required for to write theory notes
- Manage to write properly for minute assessments and go through Zero test

Measuring Instruments	Measurements	S. I. Units	Laboratory units	Tick, if you have used it
Ammeter	Electric current in ampere			
Barometer	Atmospheric pressure			
Caliper	Distance			
Calorimeter	Heat (in chemical reaction)			
Dynamometer	Torque			
Electrometer	Electric charge			
Galvanometer	Electric current			
Hydrometer	Specific gravity of liquid			
Interferometer	Infrared light spectra			
Manometer	Pressure of gas			
Ohmmeter	Electric resistance			
Photometer	Intensity of light			
Sextant	Angle between two visible objects			
Spectrometer	Spectra (light spectrum)			
Thermometer	Temperature			
Thermopile	Small quantities of radiant heat			
Venturi meter	Flow of liquid			
Viscometer	Viscosity of fluid			
Voltmeter	Volt			
Screw gauge	Distance			

List of Participants:

	List of Participants:
	Students' Name
*	Akash Purushottam Kalpande
	Darshan Dadarao Kasdekar
	Himanshu Vinod Bhujbale
	Jayesh Sunil Dindekar
	Jivan Nandkishor Bethekar
	Karan Prabhakar Babar
	Mangesh Gajanan Surpatane
	Neha Sanjay Wankhade
	Piyush Pramod Meshram
	Pratik Rajesh Ganorkar
*	Pritam Dnyaneshwar Jirapure
	Rahul Lalchand Kasdekar
*	Rohit Dnyaneshwar Kadam
*	Sachin Harikisan Patankar
*	Shruti Kirtijan Wankhade
	Sonali Mohanrao Gulhane
	Sudhir Ananda Meshram
	Sukhada Rajesh Hambarde
	Vaibhav Devendra Rupnarayan
	Vedant Tukaramji Shingnapure
	Vicky Suresh Mandve
	Yash Pramod Deulkar

^{*} late comers are also allowed

Department of Physics.

Arts, Commerce and Science College, Kiran Nagar, Amravati in association with LASER_an NGO and Victor Tutorials Pvt. Ltd. is conducting a

Test on Basics of PHYSICS (Baseline Zero Test) [Marking Scale: It will be calculated as per %age scale] Total Marks: 100 & time in minute: 50

Multiple Choice QUESTIONER (MCQs)

Note and think, Read this paragraph carefully.

Evaluate your primary level Physics with the scale provided at the end of this paragraph and enjoy following "fill in the blanks" with the usual words used by you in Physics, if necessary, any answer to justify your or asked word, write the proper reason which you think, at the back of the sheet by writing proper question number. The keys of the answers are provided in the bracket if needed by the Setter of these questions. With the primary thought of the Setter "nothing is ideal in the Universe". The percentage marks here doesn't matter. It can be a common learner's performance and if it is below four on 10 point scale, re-thinking from the start is needed again by paying more time & more brain storming. even discussions also if needed.

IMPORTANT: Answers of questions may vary; it purposes to think many times over the question and the matter to be solved.

- The unit of weight and Force is same.
- 2. The unit of hemoglobin concentration is gm/dl or kg/lit.
- 3. The unit of perimeter of a circle and its radius is equal.
- 4. With the dimensional point, the unit of energy, work and the Torque is equivalent.
- 5. The S. I. system of unit is termed as Systeme International de Unites.

- 6. In FPS system of unit second is equivalent to second in SI. 7. The base of S. I. system is 10, hence can be easily memorized.
- 8. 1 inch = 2.54 cm
- 9. The number of fundamental physical quantities till date is 07
- The symbol of unit of luminous flux is cd. 10.
- 1 TB = 10^{-3} HB, where H = Hexa, T = Tera. 11.
- $1 \mu m = 10^{-6} m.$
- Two equal vectors must have magnitude and 13. directions equal.
- If the weight of 3 kg wt and 4 kg wt are added together then total may be less (less/greater) than 7 kg wt.
- Jagan poured 5 liter of milk into a can and then Amol removed 4 liter of milk to prepare a Milk-Tea, the volume of milk left in the can is 1 m3.
- Can you maintain hierarchy in the Force, work, power, 16. mass velocity and acceleration, please write in the order. Mass, velocity, acceleration, force, power & work.

Note for 17 to 21: Use following reference formula

$$R = \sqrt{P^2 + Q^2 + 2PQ\cos\theta}$$

and then write about following vector magic,

- 18. If 7 inclined at 90° with 8 and added together, then we get 11.
- 19. If two vectors of magnitude 7's are added directing oppositely then we will get zero.
- 20. Addition of 3 and 4 both pointing south may result into 5.
- 21. The magnitude of the unit vector A is IAI or A.
- 22. If Sejal goes in North 40 meter and then turned through 60 degree in the south and moved 30 meter, how much distance she covered Answer = 70 meter
- 23. The dimension of power is [M1 L2 T3], hence the dimension of work is [M1 L2 T-2].

5. Question Paper for Test on Bridge Course (as it is used for Zero Test)

- 24. The dimension of force is [M 1 L 1 T 2], hence the dimension of magnetic induction is [M 1 T 2 I 1].
- 26. The dimension of electrical intensity is $[\mathbf{M^1 L^1 T^{-3} I^{-1}}]$. 27. The dimension of Pressure is $[\mathbf{M^1 L^{-1} T^{-2}}]$.
- 28. The area and volume of a sphere of radius r can be written as $4\pi r^2$ and $4/3\pi r^3$.
- 29. Bajpeyee Sir's house is at 1 kilometer from the Amravati Bus Station, if he comes again to Bus station from his home the physical quantity become zero will be displacement.
- 30. The average velocity and the acceleration of the body attaining velocity v to u in time t can be written as (u+v)/2 & (v-u)/t.
- 31. The relation between linear and angular velocity is $v = r \cdot \omega$
- 32. According to Newton's first law of motion, change in velocity is
- 33. Minimum number of forces required to justify Newton's Third law of motion is two and are named as action and reaction.
- 34. If the two bodies which collide sticks together then, is called as in-elastic collision.
- The Earth can be an example of inertial frame of reference.
- 36. If the body on the Earth weighs as 9.6 Kg wt then its weight on the moon can be 1.6 Kg wt.
- 37. If a body of 20 kg on Earth is kept on the Mars then its mass will be 20 kg.
- 38. If G is a notation of Universal Gravitational Constant and then its value is $G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$.
- 39. Earth is moving round the Sun in a circular orbit, the net work
- done by it is **zero**.

 40. Latest 100th satellite launched by India in the space is called Cartosat-2 / PSLV-C40.
- 41. 1 kilowatt hour = **3.6 x 10⁶ J**42. 1 horsepower = **746** watt

- 43. If a force F is applied at some angle $\boldsymbol{\theta}$ to the body at a distance rfrom the axis of rotation then moment of a force can be written as
- 44. The unit of frequency is reciprocal of the unit of time.
- 45. The one crest / compression and one trough / rarefaction constitutes a wavelength.
- The surface waves due to water ripple are transverse waves.
- 47. For good hearing one should have a good medium along with a good ear and a good source.
- 48. No material medium is required for traveling of waves like rays of ordinary visible light, x-rays, radio waves, microwaves in oven, TV signals.
- 49. Seismic waves in sea which are a mixture of transverse and longitudinal waves are also called as Tsunami in Japanese.
- Absolute zero temperature = -273 °C.
- 51. The temperature of the human body becomes 102 $^{\rm o}\!F$ in clinical
- language, means temperature in $38{\sim}39^{\circ}C$ 52. In the equation PV = nRT, R is called as Universal Gas Constant Its value is 8.314 J/mol.K or 2 cal/mol.K.

(Discuss answers with reasons in the Tutorial Lectures with Prof. D. B. Suryawanshi, Bajpeyee A. U. and Shamkuwar S. H. (Answer Key will be displayed on departmental notice board just after the completion of Test)

6. Result of Test after Bridge course

Name of the Student	Out of 100	Out of 20	Rank
Sonali Mohanrao Gulhane	68	14	1
Sudhir Ananda Meshram	68	14	2
Rohit Dnyaneshwar Kadam	66	13	3
Karan Prabhakar Babar	60	12	4
Piyush Pramod Meshram	60	12	5
Akash Purushottam Kalpande	52	10	6
Vicky Suresh Mandve	52	10	7
Yash Pramod Deulkar	50	10	8
Jayesh Sunil Dindekar	46	9	9
Jivan Nandkishor Bethekar	46	9	10
Sukhada Rajesh Hambarde	46	9	11
Vaibhav Devendra Rupnarayan	46	9	12
Mangesh Gajanan Surpatane	44	9	13
Neha Sanjay Wankhade	44	9	14
Pritam Dnyaneshwar Jirapure	44	9	15
Rahul Lalchand Kasdekar	44	9	16
Vedant Tukaramji Shingnapure	44	9	17
Sachin Harikisan Patankar	42	8	18
Shruti Kirtijan Wankhade	42	8	19
Darshan Dadarao Kasdekar	40	8	20
Himanshu Vinod Bhujbale	38	8	21
Pratik Rajesh Ganorkar	32	6	22

Annexure 4 Assessment Profile (Internal & University Assessments)

1. Internal Assessments: i) Schedule ii) Details iii) Analysis (Internal class test, Assignment, Viva, Industrial visit, field visit, Project, Seminar, Study tour)

Sr. No.	Type of Internal Assessments	Date	No. of Students Admitted	No. of Students Present	No. of Student Passed	Percentage of Result
1	Class Test B. Sc. I 1S-Physics	21-12- 2021	26	21	20	95
2	Class Test B. Sc. II 3S-Physics	21-12- 2021	51	51	49	96
3	Class Test B. Sc. III 5S-Physics	21-12- 2021	25	25	25	100
4	Common Test B. Sc. I 1S-Physics	15-01- 2022	27	27	21	78
5	Common Test B. Sc. II 3S-Physics	15-01- 2022	51	46	42	91
6	Common Test B. Sc. III 5S-Physics	15-01- 2022	32	32	29	91
7	MCQ based online Test B. Sc. I, 2S- Physics	06-05- 2022	31	24	24	77
8	MCQ based online Test B. Sc. II, 4S- Physics	06-05- 2022	46	23	23	50
9	MCQ based online Test B. Sc. III, 6S- Physics	06-05- 2022	26	23	03	88
10	Class Test B. Sc. I 2S-Physics	11-05- 2022	30	27	27	90
11	Class Test B. Sc. II 4S-Physics	11-05- 2022	45	36	36	80
12	Class Test	11-05-	26	24	24	92

	B. Sc. III 6S-Physics	2022				
13	Common Test B. Sc. I 2S-Physics	21-01- 2022	30	13	13	43
14	Common Test B. Sc. II 4S-Physics	21-01- 2022	45	32	32	71
15	Common Test B. Sc. III 6S-Physics	21-01- 2022	26	21	21	81

^{*}Record/s of all the examinations is emailed to the Examination Committee within scheduled time

Annexure 9 ICT Usage Profile

- 1. Details of ICT tools and material available in the department for teaching and learning
 - Online Lectures
 - Circulation of recorded videos of youtube
 - Ppt presentations
 - Use of Google Classrooms
 - Use of Google forms
- 2. Details of Social media used by the department for effective communication with the students
 - Establishing WhatsApp Group of all the Courses
 - Use of Internet for surfing
- 3. Details of Online teaching / learning tools used by the department for effective teaching and learning process
 - Online teaching of the syllabus contents
 - ICT infrastructure made available
 - Teaching and Demonstrations through LCD projectors
- 4. Specify Link and Details of Google Class room for teaching and learning

Sr	Name /	Name	Relevant	Link
	Title/	of the	topic in	
N	details	class	the	
О	sources	sourc	syllabus if	
	available	es	any	
		used	-	
		for		
1	Assignme	BSc	Unit wise	https://classroom.google.com/u/0/c/NDM4MTI0MD
	nt	Part I	assignme	gxNjU2

		PHY 2021- 22	nts	
2	Assignme nt	BSc Part II PHY 2021- 22	Unit wise assignme nts	https://classroom.google.com/u/0/c/NDM4MTI0MD gxNTU3
3	Assignme nt	BSc Part III PHY 2021- 22	Unit wise assignme nts	https://classroom.google.com/u/0/c/NDM4MTI0MDgxNDk1

Signature and Stamp HoD

Annexure 10 Certificate / Short Term / Skill Improvement Course Profile

Details of Certificate Course if any

Sr. No.	Name of Course	Duration	Admitted Student	Eligibility criteria
01	Certificate Course in Assembling Basic Experimental Laboratory Kits		17	Willing students admitted to B. Sc. 3S-Physics

Signature and Stamp HoD