



CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

P.O PAYANGADI (R.S)- 670 358, KANNUR DT., KERALA, website : www.cascollege.ac.in

Aided by the Govt. of Kerala & Affiliated to Kannur University



BRIDGE COURSE

SAMPLE OF BRIDGE COURSE FILES 2022-2023

DEPARTMENT OF MATHEMATICS

CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscascmadayi@gmail.com

27.03.2023

Report: Bridge Course 2022-23

The primary objective of the bridge course was to help students develop a solid understanding of basic mathematical concepts, including arithmetic, algebra, geometry, and trigonometry. Additionally, the course aimed to improve students' problem-solving skills and mathematical reasoning abilities.

This year, the course was started on 28.11.2022 and was conducted for two months after the admission. 21 first-year students were benefited from the course. A syllabus was prepared by the faculties, focusing on specific mathematical topics. The modules were designed to be interactive and engaging, with a combination of lectures, practical exercises, and problem-solving sessions. The classes were handled by the faculties in the department. Regular assessments were conducted at the end of each module to evaluate students' understanding and retention of the material covered. Participants showed significant improvement in their mathematical knowledge and problem-solving skills. The course received positive feedback from both students and instructors, with many expressing appreciations for the interactive and engaging teaching methods employed.




Dr. SHIJINA.V
Assistant Professor & HOD
Department of Mathematics
CAS College, Madayi, Kannur.

DEPARTMENT OF MATHEMATICS

CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscascmadayi@gmail.com

Syllabus Bridge Course 2022-23

Name of Course : Bridge Course for Mathematics
Offered By : Department of Mathematics, CAS College, Madayi

Aim of Course:

To revisit the topics of Mathematics from secondary classes, that will be helpful in the undergraduate studies.

Program Specific outcome:

- To lay the foundation for Graduate level Mathematics
- To get thorough with the basic concepts in mathematics and to be familiar with their applications

Suggested Methodology of Teaching and Learning:

- offline classes
- Practicing Problems
- 2 hours/week.

SYLLABUS

Module 1: Relations and Functions

Cartesian Product of sets, Relations, Types of Relations, Partial order and Equivalence Relations, Functions, one-one and onto functions, Composition and Inverse of functions.

Module 2: Limits and Continuity

Limits, Left and right hand limits, Algebra of limits, Limits of Trigonometric functions, Continuity, Algebra of continuous functions.

Module 3: Differentiability

Differentiability, Derivatives of a function, Differentiation rules, Derivatives of trigonometric function, Chain rule.

Module 4: Integration

Definite and indefinite integrals, Proper and improper integrals, Integration by Substitution, Integration using Partial Fractions, Integration by Parts




Dr. SHIJINA.V
Assistant Professor & HOD
Department of Mathematics
CAS College, Madayi, Kannur.

DEPARTMENT OF MATHEMATICS

CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscasmadayi@gmail.com

Bridge Course 2022-23(Attendance Sheet)

Sl. No.	Name	25/11/22	26/11/22	1/12	2/12	5/12	6/12	9/12	12/12	13/12	16/12	19/12	20/12	21/12	22/12	23/12
1	ABEESHNA K V	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2	AJAY KUMAR V	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	AKSHARA M V	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	AKSHARA V	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	ALBINA BLESSY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	ANIKETH KANNAN	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	ANUPRIYA AJAYAN K	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	ANUSREE P	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9	ARCHANA V V	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10	ARJA SURESH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11	ASHIKA P	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
	ASWIN A	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
	DEVANANDA K	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present



Dr. SHIJINA.V
Assistant Professor &
Department of Mathe
CAS College, Madayi.

Co-operative Arts and Science College, Madayi

Payangadi RS (PO), Kannur, Kerala

NAAC Accreditation (Cycle II) - Supporting Documents

Sl. No.	Name	28/11	29/11	1/12	2/12	5/12	6/12	9/12	12/12	13/12	16/12	19/12	20/12	21/12	22/12	23/12
14	FATHIMA K P															
15	HARITHA K															
16	MILAN MIDHILESH															
17	PRAVEERTH V P															
18	RASHVIN M															
19	S MUHAMMED IYAZ MISHAL															
20	SWANTHANA BABU															
21	SURYA K															



Dr. SRIJINA.V
 Assistant Professor & HOD
 Department of Mathematics
 CAS College, Madayi, Kannur.

DEPARTMENT OF MATHEMATICS

CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscascmadayi@gmail.com

TWO DAY REGIONAL WORKSHOP ON DIFFERENTIATION AND INTEGRATION

(29th and 30th November 2022)

Department of Mathematics, Co-operative Arts & Science College, Madayi, organized "Two Days' Regional Workshop on Differentiation and Integration " as a part of "Bridge Course 2022-23 " on 29th and 30th November 2022. In the inaugural session, Ms. Sruthi Chundakkaran (Assistant Professor, Mathematics Department) delivered the welcome speech. Dr. Shijina.V (Assistant Professor & HoD Department of Mathematics) presided over the session. College Principal Smt.Latha E.S inaugurated the event. College IQAC Co-ordinator Dr. Rajasree.K extended her greetings. Miss. Archana (I BSc Mathematics Student) expressed vote of thanks for the inaugural session.

Dr. Sunitha. M, Assistant Professor, Department of Mathematics, Govt. Brennen College, Thalassery, Dr. Shijina. V, Assistant Professor & HOD, Department of Mathematics, CAS College, Madayi and Ms. Sruthi Chundakkaran, Assistant Professor, Department of Mathematics, CAS College, Madayi were the resource persons.

On day 1, Dr. Shijina.V managed session I in the forenoon and Ms. Sruthi Chundakkaran managed session II in the afternoon. On day 2, Dr. Sunitha. M managed the session III in the forenoon and Ms.Sruthi Chundakkaran managed the session IV in the afternoon. Printouts of study material and worksheets were distributed to the students. Students actively participated in all the sessions. Around 65 students, including students from Payyanur college and St.Joseph college, Pilathara, got the benefit of the programme.



Dr. SHIJINA.V
Assistant Professor & HOD
Department of Mathematics
CAS College, Madayi, Kannur.

Co-operative Arts and Science College, Madayi

Payangadi RS (PO), Kannur, Kerala

NAAC Accreditation (Cycle II) - Supporting Documents

SAMPLE OF BRIDGE COURSE 2021-2022

Sl. No.	Name	16/2	17/2	18/2	21/2	22/2	23/2	24/2	25/2	26/2	29/2	30/2	31/2	2/3	3/3	4/3	7/3	8/3	9/3
13	ASNA M T	X	X	X	X	0	X	X	X	X	X	0	X	X	X	X	X	X	X
14	ASWANI V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	DIYA RAJ K V	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	DRISHYA C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	FATHIMATH THASNEEM C K	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X
18	GOPIKA N M	X	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X
19	HARISHMA M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	HASNA T P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
21	MANJIMA P P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	MIDHUNA K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	MUFEEDA M T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	MUHAMMED SHAHEER K V	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X
25	NAMITHA P V	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
26	NANDHANA P	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X
27	NITHA N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	ANJAYA SUNIL KUMAR	X	X	X	X	0	X	X	X	X	X	X	X	X	X	X	X	X	X

Dr. SHRIDHANA V
Assistant Professor & HOD
Department of Mathematics
CAS College, Madayi, Kannur.



Co-operative Arts and Science College, Madayi

Payangadi RS (PO), Kannur, Kerala

NAAC Accreditation (Cycle II) - Supporting Documents

Sl. No.	Name	16/2/22	17/2	18/2	21/2	22/2	23/2	29/2	30/2	31/2	2/3	3/3	4/3	7/3	8/3	9/3
29	SAYANTH T T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	SRADDHA M	X	o	X	X	o	X	X	X	X	o	X	X	X	X	X
31	SREEGAYA P P	X	X	X	X	X	X	X	X	X	X	o	X	X	X	X
32	VIPIN P P	X	X	X	X	o	X	X	o	X	X	X	X	X	X	X
33	VISHNU K	X	X	X	X	X	X	X	X	o	X	X	X	X	X	X
34	VYSHNAV P K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	YADHUKRISHNAN V V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Dr. SHIJINA.V
Assistant Professor & HOD
Department of Mathematics
CAS College, Madayi, Kannur.



DEPARTMENT OF MATHEMATICS

CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscasmadayi@gmail.com

Bridge Course – Feedback Form

Name: ... *Aparna P.* Semester: ... *I* Ac. Year: *2021-22*

- How helpful did you find the materials/resources provided in this class for improving your understanding of the subject matter?
 Very helpful
 Somewhat helpful
 Not at all helpful
- Did the teaching methods used in the classes help you grasp the concepts more effectively?
 Yes
 May be
 No
- Have you found the content covered in the course to be relevant and beneficial to your overall academic progress?
 Yes
 May be
 No
- Did the pace of the class suit your learning needs?
 Yes
 May be
 No
- Are the classes scheduled at convenient times for you?
 Yes
 May be
 No
- Do you find that the duration of the classes (length of each session) is adequate for covering the topic effectively?
 Very adequate
 Somewhat adequate
 Not at all adequate
- Do you feel that you've made progress since the beginning of the course?
 Yes
 May be
 No
- How satisfied are you with the level of support you've received from instructors?
 Very Satisfied
 Somewhat satisfied
 Not at all satisfied
- Overall, how satisfied are you with your experience in the bridge course?
 Very Satisfied
 Somewhat satisfied
 Not at all satisfied
- Any other suggestions:
Need more classes.....
.....
.....
.....



Signature of the student

SAMPLE BRIDGE COURSE FILE 2020-2021

DEPARTMENT OF MATHEMATICS

CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscascmadayi@gmail.com

26.03.2021

Report: Bridge Course 2020-21

The course started on 27.01.2021 and was conducted for two months after the admission. 21 first-year students were attended the course. A syllabus was prepared by the faculties, focusing on specific mathematical topics. The classes were in online mode and were handled by the faculties in the department. Regular assessments were conducted at the end of each module to evaluate students' understanding of the material covered. The feedback collected from the students showed significant improvement in their mathematical knowledge and problem-solving skills.



Dr. SHIJINA.V
Assistant Professor & HOD
Department of Mathematics
CAS College, Madayi, Kannur.

DEPARTMENT OF MATHEMATICS CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscascmadayi@gmail.com

Syllabus Bridge Course 2020-21

Name of Course : Bridge Course for Mathematics
Offered By : Department of Mathematics, CAS College, Madayi

Aim of Course:

To revisit the topics of Mathematics from secondary classes, that will be helpful in the undergraduate studies.

Program Specific outcome:

- To lay the foundation for Graduate level Mathematics
- To get thorough with the basic concepts in mathematics and to be familiar with their applications

Suggested Methodology of Teaching and Learning:

- Online classes
- Practicing Problems
- 2 hours/week.

SYLLABUS

Module 1: Relations and Functions

Cartesian Product of sets, Relations, Types of Relations, Partial order and Equivalence Relations, Functions, one-one and onto functions, Composition and Inverse of functions.

Module 2: Limits and Continuity

Limits, Left and right hand limits, Algebra of limits, Limits of Trigonometric functions, Continuity, Algebra of continuous functions.

Module 3: Differentiability

Differentiability, Derivatives of a function, Differentiation rules, Derivatives of trigonometric function, Chain rule.

Module 4: Integration

Definite and indefinite integrals, Proper and improper integrals, Integration by Substitution, Integration using Partial Fractions, Integration by Parts



Dr. SHIJINA.V
Assistant Professor & HOD
Department of Mathematics
CAS College, Madayi, Kannur.

SAMPLE BRIDGE COURSE FILE 2020-2021

DEPARTMENT OF MATHEMATICS

CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscascmadayi@gmail.com

Bridge Course 2020-21(Attendance Sheet)

Sl. No.	Name	27/1/21	28/1	29/1	1/2/21	2/2	3/2	8/2	9/2	15/2	16/2	17/2	20/2	23/2	24/3	25/3
1	ABHIJITH C P	X	X	X	a	X	X	X	X	X	X	X	a	X	X	X
2	ABHIN CHANDRAN	X	X	X	X	a	a	X	X	X	X	X	X	X	X	a
3	ABHIN M	X	X	X	X	X	X	X	X	X	X	X	X	X	X	a
4	ABHISHEK KUMAR	X	X	X	X	a	X	X	a	X	X	a	a	X	X	X
5	ADARSH RAJAN															
6	AKHIL K	X	a	X	X	a	X	X	X	X	X	a	X	X	X	X
7	AKHIL MANOHARAN E	X	X	X	a	X	X	X	X	X	X	X	X	X	X	X
8	AKSHAYA M K	X	X	X	X	a	X	X	X	X	a	X	X	a	X	X
9	AMBILI K V	X	X	X	a	X	X	X	a	X	X	a	X	X	a	X
10	ASWATHI T	X	a	X	X	X	a	X	X	X	X	X	X	X	X	a
11	ATHULYA P V	X	X	X	X	X	X	a	X	X	X	X	X	a	X	X
	CHAITHRA P	X	X	X	X	X	a	X	X	X	a	X	X	X	X	a
	DEEPAK N	X	a	X	X	X	X	a	a	X	X	a	X	X	X	a



Dr. SHIJIN V
Assistant Professor & HOD
Department of Mathematics
CAS College, Madayi, Kannur.

Co-operative Arts and Science College, Madayi

Payangadi RS (PO), Kannur, Kerala

NAAC Accreditation (Cycle II) - Supporting Documents

SAMPLE BRIDGE COURSE FILE 2020-2021

Sl. No.	Name	27/1/21	28/1	29/1	1/2	2/2	3/2	8/2	9/2	15/2	16/2	17/2	22/2	23/2	24/2	25/2
14	DHARSANA MADHUSOODHANAN	X	X	X	a	X	X	X	X	X	a	X	X	X	a	X
15	FATHIMA SHANA THAJUDEEN S T P	X	X	a	X	X	X	X	X	X	a	X	X	X	X	X
16	GADHA GOKUL	X	X	X	a	X	X	X	X	X	X	a	X	X	X	X
17	JISHNU JANARDHANAN	a	a	X	X	X	X	X	X	X	X	X	X	a	X	X
18	JUNAID MUSTHAFA	X	X	a	X	X	a	X	X	X	a	X	X	a	X	X
19	NANDANAKRISHNA M K	X	X	X	a	X	X	X	X	X	X	a	X	X	X	X
20	SANJANA K P	X	X	a	X	X	X	a	X	X	a	X	X	X	X	a
21	SIDHARTH K V	a	X	a	X	X	X	X	X	X	X	X	a	X	X	X
22	SREERANJINI T A	X	X	X	a	X	a	X	X	X	X	X	X	X	X	X




Dr. SHIJINA.V
Assistant Professor & HOD
Department of Mathematics
CAS College, Madayi, Kannur.

SAMPLE BRIDGE COURSE FILE 2020-2021

DEPARTMENT OF MATHEMATICS

CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscascmadayi@gmail.com

Bridge Course – Feedback Form

Name: *Ambili:K.V* Semester: ... *I* Ac. Year ... *2020-21* ..

1. How helpful did you find the materials/resources provided in this class for improving your understanding of the subject matter?
 Very helpful
 Somewhat helpful
 Not at all helpful
2. Did the teaching methods used in the classes help you grasp the concepts more effectively?
 Yes
 May be
 No
3. Have you found the content covered in the course to be relevant and beneficial to your overall academic progress?
 Yes
 May be
 No
4. Did the pace of the class suit your learning needs?
 Yes
 May be
 No
5. Are the classes scheduled at convenient times for you?
 Yes
 May be
 No
6. Do you find that the duration of the classes (length of each session) is adequate for covering the topic effectively?
 Very adequate
 Somewhat adequate
 Not at all adequate
7. Do you feel that you've made progress since the beginning of the course?
 Yes
 May be
 No
8. How satisfied are you with the level of support you've received from instructors?
 Very Satisfied
 Somewhat satisfied
 Not at all satisfied
9. Overall, how satisfied are you with your experience in the bridge course?
 Very Satisfied
 Somewhat satisfied
 Not at all satisfied
10. Any other suggestions:
good classes
.....
.....
.....

Date: *26-03-2021*



[Signature]
Signature of the student

SAMPLE BRIDGE COURSE FILE 2020-2021

DEPARTMENT OF MATHEMATICS

CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscascmadayi@gmail.com

Bridge Course – Feedback Form

Name:.....Sanjana K.P.....Semester: First.....Ac. Year: 2020-21

- How helpful did you find the materials/resources provided in this class for improving your understanding of the subject matter?
 Very helpful
 Somewhat helpful
 Not at all helpful
- Did the teaching methods used in the classes help you grasp the concepts more effectively?
 Yes
 May be
 No
- Have you found the content covered in the course to be relevant and beneficial to your overall academic progress?
 Yes
 May be
 No
- Did the pace of the class suit your learning needs?
 Yes
 May be
 No
- Are the classes scheduled at convenient times for you?
 Yes
 May be
 No
- Do you find that the duration of the classes (length of each session) is adequate for covering the topic effectively?
 Very adequate
 Somewhat adequate
 Not at all adequate
- Do you feel that you've made progress since the beginning of the course?
 Yes
 May be
 No
- How satisfied are you with the level of support you've received from instructors?
 Very Satisfied
 Somewhat satisfied
 Not at all satisfied
- Overall, how satisfied are you with your experience in the bridge course?
 Very Satisfied
 Somewhat satisfied
 Not at all satisfied
- Any other suggestions:
.....
.....
.....



Date: 26/03/2021

Signature of the student

A handwritten signature in blue ink, appearing to be 'Sanjana'.