



**CONSOLIDATED REPORT ON INDUCTION PROGRAM  
FOR FIRST YEAR (UG)**

**22-02-2021 to 27-02-2021**

**DEPARTMENT OF MATHEMATICS**

**AVIT CAMPUS, CHENNAI**

**FEBURARY- 2021**

## I-B.Sc.-MATHEMATICS – 2020 BATCH

### SCHEDULE FOR STUDENT INDUCTION PROGRAM

Date	Session I	Session II	Lunch	Session III	Session IV	Session V	
	09.30 am to 10.55 am	11.15 am to 12.40 pm		01.45 pm to 02.40 pm	02.45 pm to 04.10 pm	04.15 pm to 05.15 pm	
22.02.2021	Invited talk By Dr.M.Radha Madhavi (Carrier opportunity after B.sc mathematics)	Talk on COVID-19 Awareness	12.45 pm to 01.40 pm	Academic registration & admission formalities Dr. V.Ananthan Mr.S.Loganathan Mr.M.Ramesh		Department Orientation Dr. V.Ananthan HOD Mathematics	
23.02.2021	Fundamental of Calculus Dr.V.Ananthan HOD Mathematics	Invited talk By Dr.P.Kandan Important of Mathematics in day to day life		Important of algebra in daily life Mr.S.Loganathan Mathematics		Introduction to multivariable calculus Mr.M.Ramesh Mathematics	
24.02.2021	Inaugural and Welcome Note Dr.Shanmugavalli, Director, SAS	Self introduction of students & Rules and Regulation of Dress code		Interaction with Department Prof. Dr. V.Ananthan HOD Mathematics	Group Discussion / Role play on special Topics Mr.M.Ramesh Mr.S.Loganathan		
25.02.2021	Invited talk By Dr.C.Ramkumar Carrier guidance and opportunities for B.sc Maths degree holders	Talk on Importance of Aptitude Training Dr.V.Ananthan		Introduction SWAYAM, NPTEL. COURSERA Mr.S.Loganathan	Library & Journal searching Mr.M.Ramesh	Quiz Competitions Mr.S.Loganathan	
26.02.2021	A Lecture on "Communication a bread and butter" by Mrs..Padmaragam HOD English	Introduction to LMS Y.Raghu		Group Discussions on special Topics Mr.S.Loganathan	Extra curricular Activities Mr.M.Ramesh	Tree Planation's in & Outside of the Campus	
27.02.2021	FIELD VISIT –Historical Place						

## **ONE WEEK INDUCTION TRAINING PROGRAM FOR NEW STUDENTS**

**(22-02-2021 to 27-02-2021)**

### **OBJECTIVE**

The objectives of the program is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature. The time during the Induction Program is also used to rectify some critical lacunas and sensitize them towards exploring their academic interest and activities, reducing competition and making them work for excellence, build relations between teachers and students and overall personality development. The following major activities under the induction program in which the students would be fully engaged throughout the day for the entire duration of program, this includes:

1. **Physical activity** : This would involve a daily routine of physical activity with games and sports including yoga which will help them to develop team spirit.
2. **Creative arts** : Every student would choose one skill related to the arts whether visual arts of performing arts example are painting, dancing street play, music etc.
3. **Universal human values:** It gets the student to explore on self and allows one to experience the joy of learning stand up to peer pressure, take decisions with courage etc.
4. **Literary** : Literary activities would encompass reading, writing, debating and enacting a play.
5. **Lectures by Eminent People** : This period can be utilized for lectures by eminent people it would give the students exposure to people who are socially active or are in public domain.
6. **Field Visit** : This would familiarize them with the area as well as expose them to the outer world.

## DAY: 1 (22.02.2021)

### Session-I (09.30a.m. to 10.55a.m.)

#### Inauguration Session

Dr.V.Ananthan, HOD/Department of Mathematics Welcomed all the first years students who are admitted to Department of Mathematics and all the faculty members on this occasion. **Dr. M. Radha Madhavi** Associate Professor, Department of Mathematics, Koneru Lakshmaiah Education Foundation. (K L Deemed to be University) Vaddeswaram, Guntur Dist. Andhra Pradesh Delivered Motivation speech on “Carrier opportunity after B.Sc Mathematics”.



**Dr.V.Ananthan**, Associate Professor, School of Arts and Science, Vinayaka Mission’s Research Foundation briefed the students about the facilities like scholarships, extracurricular activities, NSS activities, etc., also he has explained the “Counselling & Mentoring” and informed the students about the measures initiated by the college to prevent ragging.

### Session-II (11.15a.m. to 12.40p.m.)

**Dr. V.Ananthan** was delivered about COVID-19 Awareness on 22.02.2021. The points were discussed by,

#### What is COVID-19?

COVID-19 is a disease caused by a new strain of coronavirus. ‘CO’ stands for corona, ‘VI’ for virus, and ‘D’ for disease.

#### What are the symptoms of COVID-19?

Symptoms can include fever, cough and shortness of breath. In more severe cases, infection can cause pneumonia or breathing difficulties.

### **How does COVID-19 spread?**

The virus is transmitted through direct contact with respiratory droplets of an infected person (generated through coughing and sneezing)

### **Who is most at risk?**

Older people, and people with chronic medical conditions, such as diabetes and heart disease, appear to be more at risk of developing severe symptoms.

### **How can the spread of COVID-19 be slowed down or prevented?**

- ✓ Staying home when sick
- ✓ Covering mouth and nose with flexed elbow or tissue when coughing or sneezing.
- ✓ Dispose of used tissue immediately
- ✓ Washing hands often with soap and water
- ✓ Cleaning frequently touched surfaces and objects.

### **Session-III to IV (1.45a.m to 04.10p.m.)**

#### **Academic registration & admission formalities**

The candidates with the following documents are verified by admission cell:

- PAN Card, Aadhar Card, Community certificate and Bank Pass Book
- 10th Mark sheet (Original) with 2 Sets of Xerox Copy
- 12th Mark sheet (Original)/Online Print (If Mark sheet is not available) with 2 Sets of Xerox Copy
- Graduation Degree Certificate/Mark sheet (Original)/Online Print (If Mark sheet is not Available) with 2 Sets of Xerox Copy (All Semester) [For PG Courses]
- TC (Original) with 2 Sets of Xerox Copy
- Migration (Original) with 2 Sets of Xerox Copy
- Two Recent Coloured Passport Size Photographs

### **Session-V (04.15p.m to 05.15p.m.)**

#### **Department Orientation**

The Department of Mathematics organized an Orientation Session for the first year students on 22-02-2021 in the smart class room. It was a one hour interaction session facilitated by the **Director, SAS, VMRF.**

**DAY: 2 (23.02.2021)**

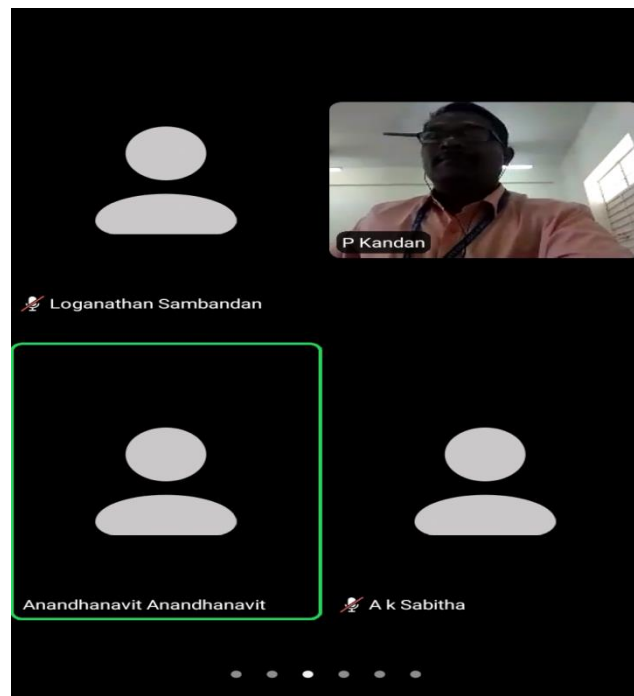
**Session-I (09.30a.m. to 10.55a.m.)**

**Dr.V.Ananthan, Associate professor, Department of Mathematics delivered “Fundamental of Calculus”** Overall the session was very interactive. The session helped the students to work in Application of calculus.

**Session-II (11.15a.m. to 12.40a.m.)**

A motivational speech was delivered by Invited talk By **Dr.P.Kandan** Important of Mathematics in day today life.

1. Math's is all around us, it is everywhere we go.
2. Not only does Math's underline every process and pattern that occurs in the world around us, but also, a good understanding of it will help enormously in our everyday life.
3. Being fast in mental arithmetic can save your money when you go to market! And so on...



### **Session-III & IV (01.45p.m. to 04.10p.m.)**

**Mr.S.Loganathan, Assistant Professor Grade-II, Department of Mathematics, School of arts and science delivered “Algebra in daily life”**

#### **Examples Of Algebra In Everyday Life**

- **Early Life.** In the early stages of development, an infant makes use of **algebra** to calculate trajectories and you might be surprised to know how! ...
- Professional Advancement. ...
- Morning **Routine.** ...
- Making It To The Trash Can. ...
- Business & Finance Management. ...
- Sports. ...
- Cooking. ...
- Technology.

### **Session-V (04.15p.m to 05.15p.m.)**

**Mr.M.Ramesh, Assistant professor, Department of Mathematics, School of arts and science delivered “Introduction to Multivariable calculus “**

Today I won't cover anything in great detail, but merely give you a feel for what we will do in this course. Yet in many ways this lecture is the most important, since one of the hardest things about a course like this is keeping all the ideas and techniques organized in your mind. So, the broad outline of the course is:

- (1) Geometry: Curves and Surfaces in Two and Three Dimensions
- (2) Calculus of Scalar Functions
- (3) Calculus of Vector Functions

Here's a rough idea of what the terms in the above mean:

- (1) Curve: Something like a bent line. Such things can be described with one free variable.
- (2) Surface: Something like a bent plane. Can be described by two free variables.
- (3) Dimension: the number of variables it takes to describe all the points on an object. Lines and other curves are one-dimensional, planes and other surfaces are two-dimensional.
- (4) Scalar: A quantity that can be described by a single number. Physical examples: Temperature, speed.
- (5) Vector: A quantity which has both magnitude and direction. Physical examples: Velocity, force. - Define  $R^2$  and  $R^3$  . Right-hand convention.

**Mentor and Mentee Discussion Ideas were discussed, such as**

Mentees and mentors will schedule one-on-one monthly consultation sessions.

The date and time of the individual consultation sessions are determined and scheduled by the mentor and mentee. Consultation sessions are formal and informal:

Formal: At the beginning of each month, the CAMP committee will send an email with talking points pertaining to the goals of the month. For example, in March, formal talking points will focus on how to establish a career paths and how to find resources in your area of expertise. Share your career expertise. Everything you can access via documentation.

Informal: Share your career expertise. Everything that is not written down; that you have had to learn along your own career path.

### **DAY: 3 (24.02.2021)**

#### **Session-I (09.30a.m. to 10.55a.m.)**

Dr.R.Shanmugavalli, Director, SAS given an Inaugural and Welcome Address for the First year UG Students.

#### **Session-II (11.15a.m. to 12.40a.m.)**

**Dr. V.Ananthan,HOD, Department of Mathematics, get interacted with the students, then the students given a self introduction about one another. V.Ananthan explained the rules and regulations of colleges, given a clear picture about the dress code and hair styles.**

#### **Session-III (01.45p.m. to 02.40 p.m.)**

Student interaction program was held at smart class room with department faculties on 24.02.2021.

In this various points has been discussed that the freshers and seniors should get to know each other, this must happen in a mutually friendly manner. Any interaction between freshers and seniors where the seniors are friendly, welcoming and non-aggressive is encouraged.

Please be firm and say “no” to any aggressive behaviour without any fear or hesitation. In particular, ragging may take the following forms:

- ✓ **Physical abuse**, for example, forcing to eat, drink or smoke, forcing to dress or undress.
- ✓ **Verbal abuse**, for example swear words and phrases, direct or indirect derogatory references to the person's appearance, attire, religion, caste, family or chosen field of study.



- ✓ **Forced activity, for example**
  - Chores for seniors e.g. copying notes, cleaning rooms etc.
  - Attending extra-curricular events to cheer hostel teams.
  - Missing classes. Not being allowed to study.
  - Staying awake late or getting up at unreasonable times.
  - Singing or dancing or performing in any other way.
  - Using foul language or shouting or cheering loudly.
  - Misbehaving with strangers, particularly women.
  - Reading or browsing pornographic/objectionable material.
- ✓ **Lifestyle restrictions, for example**
  - Not allowing certain kinds of clothing or accessories e.g. jeans, belts etc.
- ✓ **Enforcing rules regarding shaving or oiling hair. Forcing certain kinds of dress.**
  - Restricting access to parts of the hostel e.g. common room.
  - Conversational mind-games. Particular forms of interaction in which a senior or set of seniors manipulates the conversation so as to humiliate the first year student or make him/her feel stupid or insecure or generally threatened.
- ✓ **Freshers are advised to avoid:**
  - Any "interaction" outside public areas during college hours and any

### **Session-III (02.45p.m. to 05.15p.m.)**

Second year students was interacted with freshers at 24.02.2021. It is a welcome speech to introduce them to the new life and the change, to the college and its environment.

It is important as this is an enlightening speech to welcome the freshers to a new milestone and motivate them to build more such milestones in the future.

As time flies gradually, we understand that the freshers today will be senior tomorrow, welcoming the new batch with the same energy and warmth.

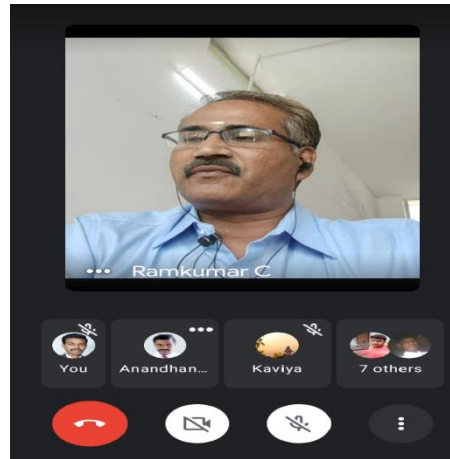
Then special topics were given for the students for Group discussion and role play.

They really enjoyed this session very much.

### **DAY: 4 (25.02.2021)**

### **Session-I (09.30a.m. to 10.55a.m.)**

**Dr. C. Ramkumar**, HOD, Department of Mathematics PG, Thirumurugan Arts and Science College, Thirupachiyur conducted a session on “**Career Guidance and Opportunities for B.Sc Maths Degree Holders**”



#### **Session-II (11.15a.m. to 12.40p.m.)**

**Dr. V. Ananthan**, Associate Professor & Head, Department of Mathematics, SAS, VMRF was delivered a talk on "Importance of Aptitude Training" .

The points were discussed are

1. How Aptitude Training will be helpful in future
2. Competitive Examinations
3. Banking Examinations
4. IAS and IPS Examinations
5. IT sector field and etc.

#### **Session-III to IV (01.45p.m. to 04.10p.m.)**

**Mr. S. Loganathan**, Department of Mathematics, SAS, VMRF has briefed about the importance of SWAYAM on 25.02.2021.

SWAYAM operates MOOCs learning resources in different ways and structure. Learning in SWAYAM has four parts/quadrants

SWAYAM is a programme initiated by Government of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality. The objective of this effort is to take the best teaching **learning** resources to all, including the most disadvantaged.

Also he has discussed about how to utilize the Library & Journal searching through online. The session ended with a brief description of the projects in their pipeline and the flagship contests.

#### **Session-V (04.10p.m. to 05.15p.m.)**

**Mr. M. Ramesh**, Department of Mathematics, SAS, VMRF has conducted QUIZ competition on 25.02.2021.

- A Golden opportunity for Students to explore & improvise their General Knowledge skills
- Besides the obvious academic benefits of expanding a student's knowledge and exploring new skills at an early age, quizzes redefine the education system in significant way

#### **OUTCOMES & OBJECTIVES ACHIEVED**

This Quiz helped students identify what they know and what they don't know. The students then have a better idea of how well they are grasping the material, hopefully motivating them to study more and helping them allocate their study time effectively by focusing on the information that still needs more practice.

#### **OBSERVATIONS & SHORTCOMINGS**

The participation in online Quiz showed that the students really like these platforms in which they can take part hassle free.

#### **DAY: 5 (26.02.2021)**

#### **Session-I (09.30a.m. to 11.10a.m.)**

**Mrs. R. Padmaragam**, HOD, Department of English, SAS,VMRF, given a lecture on “Communication a bread and butter”. The whole session was a successful attempt towards the embodiment of ethics, values and principles along with knowledge and creativity.

#### **Session-II (11.15a.m. to 12.40p.m.)**

Learning Management system was explained by **Dr. Y. Raghu**, Head, Department of Physics, SAS, VMRF on 26.02.2021.

He has given 12 key metrics of successful eLearning. Keeping an eye on them, you'll know how to enhance the quality of your content, and evaluate your learners engagement and effort.

So, first things first.

#### **The table of contents:**

- Metrics That Help You Boost Learning Effectiveness
  - Progress and Completion Rates
  - Course Status

- Score
- Metrics That Help You Make Better Courses
  - Attempts & Answer Breakdown
  - Content Traffic
  - Average View Time
  - User Feedback
  - User Rating
  - User or Group Activity
  - Attendance
- Metrics That Make Your Work Easier
  - Learning Path
  - E-Commerce

### **Session-III (01.45p.m. to 02.40 p.m.)**

A session on “**Group Discussion**” was conducted by **Dr. V. Ananthan** on 26th of February 2021 at the Smart Classroom, Department of Mathematics, SAS, VMRF.

The Group Discussion was attended by UG students.

The motive of the seminar was to conduct a group discussion among the students, to observe their personality and skills, ability to discuss on the given subject and to guide them on how to take part in Group Discussions.

The session opened with the ‘Self Introduction’ of students. The topic given was “Should education system need changes?” The students were given two minutes to think over the topic before beginning with the discussion.

The group discussion lasted for about 15-20 minutes. The highlights of the discussion are as follows:

1. There was an initiator who was also a dominator in the group.
2. The group discussion was in English as well as Hindi both Languages.
3. There were few silent observers who didn’t involve in discussion.
4. Some students were fumbling for vocabulary.
5. Students could highlight many important facts and figures pertaining to the topic.
6. Students were unable to understand the topic properly.
7. Lastly nobody could summarize the topic.

#### **Session-IV (02.45p.m. to 04.10p.m.)**

Extra Curricular Activities was conducted by **Mr. M. Ramesh** for UG students.

Students the opportunity to participate in some sort of extracurricular activity, whether it be sports, music, theater, academic clubs, student government or special interest group.

Unlike traditional high school curricula that focuses almost entirely on academics, extracurricular activities help students learn the values of competition, teamwork, individual initiative, group responsibility, sense of community, endurance, diversity and even interpersonal communication skills.

Extracurricular activities also help to reinforce skills and lessons taught in the classroom.

For example, students who join the business club will learn how to apply various mathematics concepts in a real-world context.

Science clubs provide a channel for students to enhance their knowledge and understanding of concepts they learn in biology, chemistry and natural science classes. Most of the universities consider extracurricular activity part of a well-rounded education.

The program was not just limited to books and academics, it was beyond it. A blend of skills, creativity and learning. While a group of freshers was engrossed in these activities.

#### **Session-V (04.10p.m. to 05.15p.m.)**

On 26<sup>th</sup> February 2021, **Department of Mathematics, Faculties & Students** was successfully completed the event of “**Tree Plantation**” under the Induction Program at SAS college campus.

Trees are the foremost source for producing the oxygen in environment, they helps to reduce the level of CO<sub>2</sub>.

As we all know that the whole world is facing the problem of global warming and to recover from such problem planting the trees is become one of the most important aspects today.

The event was began with Welcome speech given by the **Director R. Shanmugavalli**. At that time Director advised to students to think differently for the Society to make positive changes and to make an improvement.

All were happy and experience proud after the tree plantation event was finished, because it really feels great to do positive for the nature.

## **DAY: 6 (27.02.2021)**

### **Session-I (09.30a.m. to 12.40p.m.)**

On 27th February 2021, our college arranged for a field trip to Mahabalipuram town in Chengalpattu district. This jaunt made an excellent opportunity for our students to rehearse photography.

Students were excited and enthusiastically taking pictures of the famous Krishna's Butter ball, Pallava caves, Light house & the gorgeous temple replicas. All had a good time in capturing the essence of the historic designs and sculptures.

The trip was also extended to visit Dhakshinchitra, a cultural living museum of art, architecture, lifestyles and crafts of South India, where our students actively explored the heritage and contextual exhibitions of the different south Indian casita by clicking loads of pictures.

### **Session-II (02.45p.m. to 04.10p.m.)**

#### **Feedback from students on various sessions and discussion and finalization of presentations within each Department for Valedictory:**

- ❖ The student feedback on the orientation program-sessionwise was taken orally and as a questionnaire.
- ❖ The students expressed that they were happy and contented the way the program was conducted at Department level.
- ❖ Some student expressed that they wanted ice breaking sessions in the noon also. And sessions on central facilities was tightly scheduled, they could not clearly follow on various clubs.
- ❖ This day concluded the first phase of induction program 2021. From next week, the academic classes for first would begin.

### **VISION**

*The Mathematics Department prepares students for a diverse and changing world. We strive to contribute to a mathematically literate society through teaching (with classrooms and research), scholarship, and service*

### **MISSION**

*The Mathematics Department provides scrupulous preparation of citizens whose career paths require expertise in Mathematics. We are dedicated to scrupulous standards for content*

*knowledge, communication skills, research quality, and professional behavior. We are committed to demonstrating science as a human endeavor and as a way to understand the natural world. The faculty in the Mathematics Department see themselves as resources for our units, university, region, state, nation, and world.*

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*END*