



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

LEAD TO ILLUMINATE



MATHEMATICS

2019-20



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

DEPARTMENT OF MATHEMATICS

S.NO.	FACULTY	DESIGNATION
1	Mr.M. Prashanth	HOD
2	Ms. T.Swapna	COORDINATOR
3	Mr. V Naveen Kumar	MEMBER
4	Ms.K. Sarvani	MEMBER



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

INDEX FOR THE ACADEMIC YEAR 2019-20

S.NO	DATE	NAME OF THE EVENT	VENUE	NO OF PARTICIPANTS
1.	20-06-2019 to 22-06-2019	National Workshop on Documentation and Preparedness for Accreditation	St. Agne's College, Mangaluru	02
2.	20-07-2019	Seminar on Vector Analysis	Seminar Hall	93
3.	10-08-2019	One Day Intra Collegiate Workshop- GEOGEBRA	LFDC- Computer Lab	60
4.	21-08-2019	Field Trip- Birla Planetarium	Birla Museum	110
5	26-08-2019	Guest Lecture on Differential Calculus	Montfort Hall	112
6.	06-09-2019 & 07-09-2019	National Workshop on Numerical Computations using MATLAB	Montfort Hall	80
7.	09-12-2019	FDP- Learning Management System	LFDC- Computer Lab	03
8.	13-12-2019	Attended FDP on Research Skill Development	Seminar Hall	03
9	27-12-2019 & 28-12-2019	TWO DAY WORKSHOP – MATLAB MEGA STARTER AND SOLVER-ABSCISSA	AVANTHI DEGREE COLLEGE	10
10	30-12-2019	ORGANISED – INTER COLLEGIATE COMPETITIONS – EDGE 19	LFDC	28
11	30-12-2019 to 03-01-2020	ATTENDED FACULTY DEVELOPMENT PROGRAM	OSMANIA UNIVERSITY	01
12	24-01-2020	INTER COLLEGIATE COMPETITIONS – RAMANUJAN TALENT	SEMINAR HALL, LFDC	98



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

		HUNT		
13	25-01-2020	NATIONAL SEMINAR ON HISTORY DISCOVERY AND ITS APPLICATIONS	MONTFORT HALL, LFDC	100
14	31-01-2020	INTER COLLEGIATE COMPETITIONS – ABACUS	BADRUKA DEGREE COLLEGE	650
15	13-03-2020 & 14-03-2020	TWO-DAY NATIONAL SEMINAR ON SUSTAINABLE DEVELOPMENT IN INDIA CONTEMPORARY CHALLENGES AND STRATEGIES	MONFORT AUDITORIUM KARNATAKA	01
16	02-05-2020 & 03-05-2020	INTERNATIONAL WEBINAR ON MATHEMATICAL MODELLING AND MULTIDISCIPLINARY ON MATHEMATICS	GOOGLE MEET	03
17	22-05-2020	NATIONAL WEBINAR ON FUZZY SET THEORY & ITS APPLICATIONS	GOOGLE MEET	75
18	27-05-2020	NATIONAL LEVEL ONLINE POSTER & SLOGAN WRITING COMPETITION – COVID 19	ZOOM	26
19	28-05-2020	FACULTY DEVELOPMENT PROGRAM- RESEARCH IN MATHEMATICS	ZOOM	140



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

20	30-05-2020 to 02-05-2020	TWO-DAY ONLINE NATIONAL FDP ON MATHEMATICS IN COMPUTER SCIENCE	WEBEX	03
21	01-06-2020 & 02-06-2020	SEVEN DAY INTERNATIONAL FDP ON MATHEMATICAL MODELLING IN MULTIDISCIPLINARY DOMAIN	GOOGLE MEET	01
22	08-06-2020 to 14-06-2020	SEVEN-DAY FDP – INSTITUTIONAL BENCHMARKING OF BEST PRACTICES	ZOOM	01



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

NATIONAL WORKSHOP ON DOCUMENTATION AND PREPAREDNESS FOR ACCREDITATION

Name of the Event: National Workshop (Attended)

Topic: Documentation and Preparedness for accreditation

Date: 20th - 22nd June 2019

Venue: St. Agnes College, Mangaluru

Participants: Mr. M. Prashanth, Ms. Sandhya Arya

No. of Participants: 02

Mr. M Prashanth, HOD, Department of Mathematics attended the three-day National Workshop on Documentation and Preparedness for Accreditation organised by St. Agnes College, Mangaluru, in association with Xavier board of higher education in India from 20th- 22nd June, 2019. The objective of the workshop was to help the educational institutions to know its strengths, opportunities and weaknesses through an informed review process. The workshop was inaugurated by Dr. Sr. Annamma Philip, and addressed the audience by stressing on the need to know the various criteria which come under NAAC. The two resource persons for the workshop were former faculty Dr. Ordetta Mendoza from Stella Maria Chennai and former faculty Dr. Joe Jesudurai from Loyola college, Chennai discussed the seven criteria of the NAAC in detail. The participants could clear their queries which were answered by the two resource persons.



Mr. Prashanth, Ms. Sandhya attending National Workshop on Documentation and preparedness for Accreditation.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Mr. Prashanth, Ms. Sandhya Arya, along with a resource person at St. Agnes College, Mangalore.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

SEMINAR ON APPLICATIONS OF VECTOR ANALYSIS

Name of the Event: Seminar

Topic: Applications of Vector Analysis

Date: 20th July 2019

Venue: Seminar Hall, LFDC

Resource Person: Mr. B. Gnaneshwar Rao

Participants: B. Sc Final year of MECS & MPCS

No. of Participants: 93

The Department of Mathematics organised a seminar on Applications of Vector Analysis on 20th July 2019. The resource person for the session was Mr. B. Gnaneshwar Rao, He explained about the basic components present in the normal maps such as longitudes, latitudes and scales and also about the differences between Vector Analysis and Topology and how to represent the original area in the map. He explained the background work that has to be done before any public construction like widening of roads, installation of towers etc. He explained about the different layers present in the maps which gives the information about the area.



Mr. M. Prashanth introducing the Resource person of the session Mr. Gnaneshwar to the students



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Mr. Gnaneshwar, Resource person taking the session to the Final year students.



Ms. Jayanthi Reddy, Vice Principal, felicitating the resource person Mr. Gnaneshwar with a memento and shawl.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

WORKSHOP ON GEOGEBRA

Name of the Event: Workshop

Topic: Geo-Gebra

Date: 10th August 2019

Venue: Computer Lab, LFDC

Resource Person: Dr. P. Lalitha, HOD, Dept. of Mathematics, St. Francis College, Begumpet, Hyderabad.

Participants: B. Sc Final year students of MECS, MPCS, MPC, MSCS

No. of Participants: 60

The Department of Mathematics organised a Workshop on Geo-Gebra on 10th August 2019. The resource person for the session was Dr. P. Lalitha, HOD, Dept. of Mathematics, St. Francis College, Begumpet, Hyderabad. She started the workshop by giving a brief description about Geo – Gebra software for the practical usage of Solid Geometry. She provided material to students in which the solutions of the problems are given in a step-by-step procedure and explained how to take the points in 3D which includes a sphere passing through the points, a plane cutting the sphere, intersection of two spheres, and a cone. The students actively engaged in the task and obtained the solutions by using the program.



Final year students exploring solid geometry by using the GeoGebra software in the workshop.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Dr. P. Lalitha explaining the solid geometry concepts by using Geo- Gebra software in the workshop



Mr. M. Prashanth, Mr. V Naveen Kumar, Ms. T. Swapna Faculty, Dept. of Mathematics along with Dr. P. Lalitha, Resource person.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

FIELD TRIP TO BIRLA PLANETARIUM

Name of the Event: Field Trip

Location: Birla Planetarium

Date: 21st August 2019

Venue: Hyderabad

Participants: B. Sc First-year students of MECS, MPCS, MPC, MSCS

No. of Participants: 110

The Department of Mathematics organized a Field trip to Birla Planetarium on August 21, 2019, for the B.Sc. First-year students. The main objective of the trip is to bring awareness about the Galaxy system and the launch of satellites. In the first session, students watched the video regarding the Solar System, the Galaxy of stars in space, Kalpurush of the stars which was recognized by our ancient scientists, and also Magenta, a group of stars drizzling and forming shapes in space. They also showed about the planet Mars and the chance of existing life on the planet Mars. The videos were outstanding and very informative for the students to improve their knowledge. The students visited the museum, where they saw various experiments, which included Physics concepts and Optics related to Mathematics. Overall, the field trip was informative to the students.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



B.Sc. first year students in the Birla Planetarium as part of the educational Field Trip



B.Sc. First-year students having a photo session near Birla planetarium with Ms.K. Sarvani, Faculty, Dept. of Mathematics.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



B.Sc. First-year students having a photo session at Birla Planetarium with Mr. Naveen Kumar, Ms. Sarvani, Faculty, Dept. of Mathematics



B.Sc. first-year students in the Birla Planetarium.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

GUEST LECTURE ON DIFFERENTIAL CALCULUS

Name of the Event: Guest Lecture

Topic: Differential Calculus

Date: August 26, 2019

Venue: Montfort Hall, LFDC

Resource Person: Dr. SreeRam Reddy, Assistant Professor, Osmania University, Hyderabad.

Participants: B. Sc Final year of MECS, MPCS, MPC, and MSCS

No. of Participants: 60

The Department of Mathematics organised a Guest Lecture on Differential Calculus on 26th August 2019. The resource person for the session was Dr. Shreeram Reddy, Assistant Professor, Osmania University, Hyderabad. The main objective of the session was to explore the various applications of Differential Equations. Sir started the lecture by giving the applications of differential calculus in various fields of mathematics. He derived some equations which were related to the length of the plane curves. He also explained about the length of the Cardioid for the functions, Cartesian form, Polar form, parametric form and also the Asteroids. Later he solved some examples related to the length of the plane curve. He also explained how to calculate the limits of the plane curves. Finally, the session ended with the interaction with students.



Dr. SreeRam Reddy, Professor, Osmania University explaining integral calculus concepts to the students.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Dr. SreeRam Reddy, Professor, Osmania University explaining about the Cardiode as a part of integral Calculus to the students.



Mr. V. Naveen Kumar, Faculty Proposing the vote of Thanks



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

NATIONAL WORKSHOP ON NUMERICAL COMPUTATIONS USING MATLAB

Name of the Event: National Workshop

Topic: Numerical Computations using MATLAB

Date: 6th- 7th September 2019

Venue: Montfort Hall, LFDC

Resource Person: Dr.K. Srinivasa Rao, Professor & HOD, Dept. of Mathematics, SCSVMV University.

Participants: Faculty and students from various institutions

No. of Participants: 80

A Two-day National Workshop on “Numerical Computations using MATLAB” was organised. The chief guest for the workshop was Prof N. Kishan, Chairman, BOS of Mathematics & convener of the CPGET 2019. The Resource person for the program is Dr. K. Srinivasa Rao, professor & HOD, Dept. of Mathematics, SCSVMV University. The first session started with a brief introduction of the MATLAB; various commands associated with the functioning of MATLAB. The speaker explained how to initiate the values to the variables and also to the arrays and Matrices. He also discussed the addition of Matrices, multiplication of symmetric Matrices and non-symmetric Matrices. In the second session he explained how to calculate the Eigenvalues of a square Matrix of the size (100x100) and to find the rank of the matrix, size of the matrix.

On the second day of the workshop, sir explained about the handling of the M-files, how to write the program which is associated with the files. In addition to this he discussed the importance of the interpolation and its application for various functions by using the MATLAB. The workshop was concluded by felicitating the resource person Prof. K. SrinivasaRao.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Chief guest Prof. N. Kishan, lighting the lamp in the National workshop on MATLAB.



Dr. K. Srinivasa Rao, resource person of the National workshop with Rev. Bro. Vincent Reddy, Principal, LFDC lighting the lamp.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Rev. Bro. Vincent Reddy, principal addressing the participants in the National Workshop Numerical computations using MATLAB



Rev. Bro. Vincent Reddy felicitating the Chief Guest Dr. N. Kishan, Asst professor, Osmania University in the National Workshop on MATLAB



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

FACULTY DEVELOPMENT PROGRAMME ON LEARNING MANAGEMENT SYSTEM

Name of the Event: Faculty Development programme (Attended)

Topic: Learning Management System in teaching and learning process

Date: 9th December 2019

Venue: Montfort Hall, LFDC

Resource Person: Mr. Raman, Faculty of Computer Science, LFDC

Participants: Mr. M Prashanth, Ms. T. Swapna, Mr. V. Naveen Kumar

No. of Participants: 03

The Faculty Development Program was organised by the Department of Computer Science, Little Flower Degree College on “Learning Management System”. On 9th December 2019. The resource person for the programme was Mr. Raman, faculty of Computer Science, LFDC. Sir explained how to implement and assess a specific learning process by using LMS. It is used for e-learning practices and in its most common form consists of 2 elements. Sir explained the importance of LMS which is used to create the professional structured course content which includes the teacher to create text, add text, images, tables, links and text formatting, interactive tests, slide shows etc He also discussed the various types of LMS such as cloud-based self-hosted, desktop applications, mobile applications.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Mr.M. Prashanth, Ms.T. Swapna, Mr. V Naveen Kumar attending the Faculty Development Program on Learning Management skills.



Mr. Raman, Faculty, Dept. Of Computer Science explaining about the learning management skills to the participants.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

FACULTY DEVELOPMENT PROGRAMME ON RESEARCH SKILL DEVELOPMENT

Name of the Event: Faculty Development programme (Attended)

Topic: Research Skill Development

Date: 13th December 2019

Venue: Seminar Hall, Computer Lab, LFDC

Resource Person:

Session 1 - Prof. N. CH. BhatraCharyulu

Session 2 -Mrs. Gowri Deshpande

Participants: Mr. M Prashanth, Ms. T. Swapna, Mr. V. Naveen Kumar

No. of Participants: 03

The Department of Statistics organised Faculty Development programme on Research Skill Development on 13th December 2019. Mr. M. Prashanth, Mr.V. Naveen Kumar, Ms. T. Swapna, Faculty of Mathematics attended the FDP.

In this program the first session was on the topic “Development of Research Skills” by Prof. N. CH. BhatraCharyulu which highlights the significance of research scholar, Motivation of research, different types, Objectives, criteria of research, Designs, methods and methodology of Research.

Second session was on “Effective Research Writing”. by Mrs. Gowri Deshpande mainly focused on how to write a paper, factors to consider when writing a research paper, structure of the research paper - Abstract, Introduction, Methodology, Literature review, Analysis and findings, conclusions, References and Annexure.

Third session was on “Research Methodology Tools and Techniques”.by Mr. G.N. Satish Kumar focused mainly on the aspects of Types and measurement of variables, Hypothesis testing – Parametric & Non-Parametric tests, Correlation & Regression Analysis. Program came to end by distributing the certificates to the participants and felicitating the resource persons for the session.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Ms. Gowri Deshpande, resource person of the session addressing the participants in the FDP



Dr. C.H. Bhatra Charyulu, resource person of the session addressing the participants in the FDP



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

TWO DAY NATIONAL WORKSHOP ON MATLAB, MEGA START AND SOLVER

Name of the Event: Two-Day National Workshop (Attended)

Topic: MATLAB

Date: 27th- 28th December 2019

Venue: Avanthi Degree College, Barkatpura, Hyderabad

Resource person: Dr.K. Srinivasa Rao, Professor & HOD, Dept. of Mathematics, SCSVMV University.

Participants: B.Sc. Final year students

No. of Participants: 10

Students attended A Two-Day National Workshop on MATLAB, Mega stat, and Solver (MS-Excel Add-Ins) which was conducted by the Department of Mathematics and Statistics in association with IQAC and TSCOST, AVANTHI DEGREE & PG COLLEGE, Barkatpura, Hyderabad on 27th and 28th of December 2019. The resource person for the workshop was Dr.K. Srinivasa Rao, Professor & HOD, Dept. of Mathematics, SCSVMV University. The Inaugural Guests for the day were Prof. Shivaraj, Dean, Development UGC Affairs, OU, Hyderabad and Prof. B. SurenderReddy, Head, Department of Mathematics, OU, Hyderabad. In this session, sir explained the basic concepts of MATLAB and the language tools and built-in MATH functions that enable the users to explore multiple approaches and reach a solution faster than with spreadsheets or traditional programming languages.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Ms. Mounica, MPC III receiving the participation certificate from Prof. Shivaraj, Dean, UGC Affairs, O U.



Mr. Bhargav MSCS III receiving the participation certificate from Prof. Shivaraj, Dean, UGC Affairs, OU



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

FACULTY DEVELOPMENT PROGRAM ON HIGH ACCURACY, HIGH PERFORMANCE COMPUTING OF FLUID

Name of the Event: FDP(Attended)

Topic: High Accuracy, High-Performance Computing of Fluid

Date: 30th Dec 2019 – 03rd Jan 2020

Venue: Auditorium- Mechanical Engineering, Osmania University, Hyd

Resource person: Dr. Yogesh G. Bhumkar, School of Mechanical Sciences IIT Bhubaneswar, Bhubaneswar, Odisha.

Participants: Mr. M. Prashanth

No. of Participants: 01

A five-day FDP was organized by the Departments of Mathematics and Mechanical Engineering, UCE, OU, Hyderabad, Telangana on the topic of High Accuracy, High-Performance Computing of Fluid Flows, resource person for this program was Dr. Yogesh G. Bhumkar, School of Mechanical Sciences IIT Bhubaneswar, Bhubaneswar, Odisha. The program started with the lighting of the lamp by the resource person and eminent dignitaries. The main objective of the program was to solve complex linear/Nonlinear problems using HPC. In this session, sir mainly focused on methodology to solve complex linear/nonlinear problems numerically using HPC, which helps participants to write parallel programming codes on a multi-CPU framework and also provides information about high accuracy schemes which requires significantly lesser computational resources. In addition to this, participants learned to write simple parallel computing codes to solve model problems in lab sessions.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Dr. M. Kumar, Principal, University College of Engineering, Osmania University addressing the participants.



Resource person Dr. Yogesh G. Bhumkar, School of Mechanical Sciences IIT Bhubaneswar addressing the participants in the Faculty Development Program.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

INTER COLLEGIATE COMPETITIONS- RAMANUJAN TALENT HUNT

Name of the Event: Inter Collegiate Competitions

Topic: Ramanujan Talent Hunt

Date: 24th January 2020

Venue: Seminar Hall, LFDC

Participants: Students from the various institutions

No. of Participants: 98

The Department of Mathematics organized Ramanujan Talent Hunt as a part of Inter-Collegiate Competitions, in the memory of Srinivasa Ramanujan. The test was conducted on the topic of Differential Equations & Differential Calculus. Students from various colleges participated in the event. Cash Prize was awarded to the winners. The winners of the competition are

First Prize to M. Swathi, St. Francis Degree, and PG College.

Second Prize to Nikitha Yadav, Sujatha Degree College.

Third Prize to D. Sanjeev Prasad, Bhavan's Vivekananda College.

Fourth Prize to N. Tulasi, Little Flower Degree College.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Rev. Bro.Vincent Reddy, Principal, LFDC presenting the cash prize and Merit certificates to M. Swathi, St. Francis Degree and PG College.



Rev. Bro.Vincent Reddy, Principal, LFDC presenting the cash prize and Merit certificates to Nikitha Yadav, Sujatha Degree College.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Rev. Bro.Vincent Reddy, Principal, LFDC presenting the cash prize and Merit certificates to D. Sanjeev Prasad, Bhavan's Vivekananda College.



Rev. Bro.Vincent Reddy, Principal, LFDC presenting the cash prize and Merit certificates to N. Tulasi, Little Flower Degree College.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

NATIONAL SEMINAR ON HISTORY, DISCOVERY AND ITS APPLICATIONS

Name of the Event: National Seminar

Topic: History, Discovery, and its applications

Date: 25th January 2020

Venue: Montfort Hall, LFDC

Resource person: Dr.R. Siva Raman, Professor in Mathematics, D. G. Vaishnav College, Chennai

Participants: Students and Faculty from various institutions

No. of Participants: 100

The Department of Mathematics organized a National seminar on History, Discovery and its Applications on 25th January 2020. The speaker for the session was Dr. R. Siva Raman, a Professor in Mathematics, D. G. Vaishnav College, Chennai. The main motive for organizing this seminar is to expose the participants to the great Mathematician Srinivasa Rumanian's biography. Sir explained how to solve Puzzles, Roger Equation, calculation of pie and determining the prime numbers by various methods. Sir also explained the beauty of Numbers and various applications of Mathematics that we come across in day-to-day life. Sir also explained the history of Srinivasa Ramanujan and his contributions to the field of Mathematics.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Rev. Bro. Vincent Reddy, Principal, LFDC and Ms. P Jayanthi Reddy, Vice Principal along with dignitaries, inaugurating the session with the lighting of a lamp.



Rev. Bro. Vincent Reddy, Principal, LFDC and Ms. P Jayanthi Reddy, Vice Principal felicitating the Chief Guest Prof. K. Pratap Reddy, Principal, University College of Science,O.U.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Dr. R. Sivaraman, Resource person explaining the contributions made by the Great Indian Mathematician Srinivasa Ramanujan in the field of Mathematics.



Students and faculty attending the National Seminar on History, Discovery, Applications of Mathematics.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Dr. R. Sivaraman, Resource person giving the participation certificate to the participants.



Chief Guest Prof. K. Pratap Reddy, Principal, University College of Science felicitating the the resource person Dr. R. Siva Raman in the National seminar.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

INTER COLLEGIATE COMPETITION – ABACUS

Name of the Event: Inter Collegiate Competition

Trophy: ABACUS

Date: 31st January 2020

Venue: Badruka Degree College, Kachiguda, Hyderabad

Participants: B.Sc. Second and Final-year students

No. of Participants: 10

Badruka College has organized the QUIZ Competition for Inter-Collegiate Competition for the students. Students of BSC second and Final year participated in the event. Over 650 students from the various institutions participated with a lot of enthusiasm. A Sheshank & Sk Khajavali of final year MECS bagged the first Prize.



A Sheshank & Sk Khajavali receiving the Bankatlal Trophy in ABACUS



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Students with merit certificates in ABACUS –Bankatlal Trophy.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

NATIONAL SEMINAR ON SUSTAINABLE DEVELOPMENT IN INDIA

Name of the Event: National Seminar (Attended)

Topic: Sustainable Development in India Contemporary challenges and strategies

Date: 13th March 2020

Venue: Montfort Auditorium, Good News campus, Good News Welfare Society
Arts and Commerce First Grade College, Kalaghatgi, Karnataka

Participants: B.Sc. Final year student of MPC P. Manasa Reddy

No. of Participants: 01

P. Manasa Reddy, Student of B.Sc. MPC III attended and presented a paper on “A Study of Misconceptions pertaining to women empowerment radical feminism, astray from ideals of gender equality” in ICSSR sponsored Two Day’s National seminar on the topic ‘Sustainable Development in India: Contemporary Challenges and Strategies’ on 13th & 14th March 2020. It was jointly organised by GNWS First Grade Arts and Commerce College, India: for Holistic Development and Research, Kalghatgi, Centre for Bios Cultural Studies (CBICS), MAHE, Manipal and Karnatak University College Political Science Teacher’s Forum, Dharwad.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

INTERNATIONAL WEBINAR ON MATHEMATICAL MODELLING MULTI DISCIPLINARY MATHEMATICS

Name of the Event: International Webinar (Attended)

Topic: Mathematical Modelling Multi-Disciplinary Mathematics

Date: 2nd - 3rd May 2020

Platform: ZOOM

Participants: Mrs. T Swapna, Mr. M Prashanth, Mr. V Naveen Kumar

No. of Participants: 03

International Webinar was organised by Indian Institute of Teacher Education, on Mathematical Modelling Multi-Disciplinary Mathematics from 2nd - 3rd May 2020. The main objective of the programme was to construct a model that can study the asymptomatic and symptomatic transmission of COVID -19 infection collecting the data from different countries. The topic for the session was Comparative study of three Countries for Transmission of COVID-19 through Asymptomatic Individuals. The session was started by introducing the resource person Prof Nita H. Shah, Dept of Mathematics Gujarat University, Ahmedabad by Dr Kunjan Singh. In this session she spoke about the two types of human-to-human virus transmission – Symptomatic & Pre-Symptomatic transmission. A model is constructed to study the asymptomatic & symptomatic transmission of the COVID – 19 infections by collecting the data from the three countries USA, Japan & India.

For the second session the speaker was Jagdish Chand Bansal Assistant Professor, South Asian university. The topic for the session was Nature Inspired Optimization with application to predict COVID – 19.

The resource person for the third session was Professor Junto Watada Dept of Computer & Information, University Technology Petronas, Seri Iskandar, Perak Malaysia. The topic for the session was “The Recent Advance of Fuzzy Regressions Model & its Application to Human Centred Data Mining. “He has given a brief description about Fuzzy Regression with some examples and processes of the Linguistic Regression Model.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

The speaker for the fourth session was Dr Rajnish Mallick, Data Scientist. The session was about Basics of Eigen Values & Eigen Vectors. He explained about Eigenvalues, Eigen Vectors, Complex Eigenvalues & Mathematical modelling and Complex Eigenvalues.

Fifth session Topic was Fuzzy Modelling in Multi – Criteria Decision Making and the speaker was Dr. Manoj Sahni Department of Mathematics, Pandit Deendayal Petroleum University, Gandhinagar. He has given a brief description about the Fuzzy Sets, Extensions of Fuzzy sets, multi-criteria Decision-making Similarity measures.



Mr. Prashanth, Mr. V Naveen Kumar attending the International Webinar on Mathematical Modelling and Multi-Disciplinary on Mathematics.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

NATIONAL WEBINAR ON FUZZY SET THEORY AND ITS APPLICATIONS

Name of the Event: National Webinar

Topic: Fuzzy Set Theory and its Applications

Date: 22nd May 2020

Platform: Google Meet

Resource person: Dr. L. Sujatha, Assistant Professor, PG & Research Dept. of Mathematics, Auxilium college, Vellore, Tamil Nadu

Participants: Faculty from the various institutions

No. of Participants: 75

The Department of Mathematics organised the National Webinar on Fuzzy Set Theory and its Applications on May 22, 2020, with Zoom as the platform. The resource person for the session was Dr. L. Sujatha, Assistant Professor, PG & Research Dept. of Mathematics, Auxilium college, Vellore, Tamil Nadu. She started the seminar by introducing the basic concepts of Fuzzy set theory and its importance in day-to-day life. She explained the difference between Fuzzy set & Crisp set, Types of uncertainty. Fuzzy sets can be discrete or continuous and membership function of fuzzy set “real numbers very near to 0”. She explained about Triangular Fuzzy numbers, Trapezoidal fuzzy numbers, Extension of fuzzy sets, ranking of fuzzy numbers, Fuzzy shortest path algorithm, Fuzzy Transportation problem by using Fuzzy zero point.

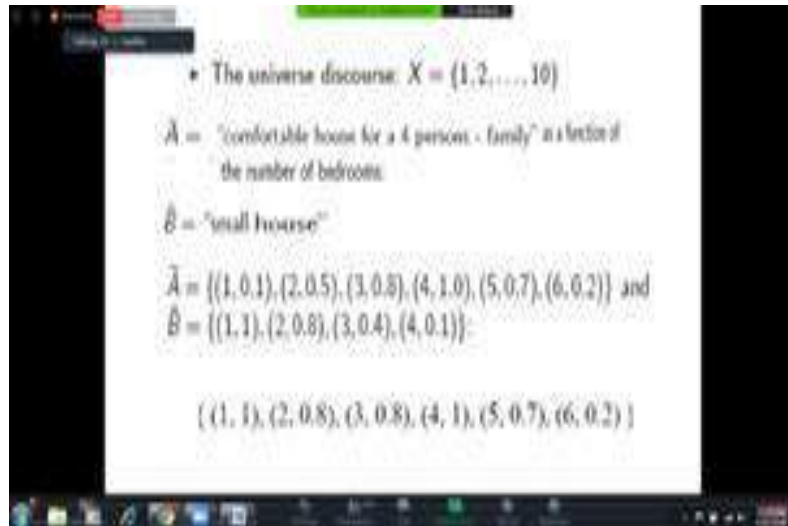


Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Dr. L. Sujatha, Asst. Professor, explaining about the Fuzzy set theory concepts in the area of research in the field of Mathematics.



Various faculties are attending the National Webinar on Fuzzy set theory and its Applications through Google Meet.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

NATIONAL LEVEL ONLINE POSTER & SLOGAN WRITING COMPETITION

Name of the Event: National Level Online Competition

Topic: Honouring Our Frontline Warriors COVID 19

Date: 18th - 25th May 2020

Platform: Online Mode

Participants: Students from the various institutions

No. of Participants: 40

A National level Poster & Slogan writing competition was organised by the Department of Mathematics for the students in order to honour Our Frontline Warriors of COVID 19. E- Poster should have a slogan for the frontline warriors which should contain a crisp line in Hindi or English having a minimal word loaded with maximum message not exceeding 15-20 words and should be no more than one page & one image. 40 students participated in this event and posted their posters to the Department Mail-Id. After completion of the last date the posters were analysed and winners were selected. The participants were given participation certificates. The winners of the competition were

First Prize to AFAF FATHIMA of St. Ann's College of Education

Second Prize to Ch. AKHIL of Vijas Institute of Degree College

Third Prize to K. SAI KIRAN of Little Flower Degree College



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

FACULTY DEVELOPMENT PROGRAM ON RESEARCH IN MATHEMATICS

Name of the Event: Faculty Development Program

Topic: Research in Mathematics

Date: 28th May 2020

Platform: ZOOM Meeting

Collaboration: Pie Mathematics Association, Chennai

Resource person: Prof. R. Sivaraman, Founder, Pie Mathematics Association, D. G. Vaishnav College, Arumbakkam, Chennai.

Participants: Faculty from the various institutions

No. of Participants: 140

The Department of Mathematics organised a Faculty Development program on Research in Mathematics in collaboration with Pie Mathematics Association on 28th May 2020 for the faculty who are interested to do the research in Mathematics. The resource person for the session was Prof. R. Sivaraman, Founder, Pie Mathematics Association, D. G. Vaishnav College, Arumbakkam, Chennai. The main objective of the program is to provide an overview of the field of mathematics. Sir explained about the areas of research in Algebra, Analysis, Differential Equations, Geometry, Topology, Combinatorics, Financial Mathematics, Mathematical Biology. Sir also focussed on the Hodge Conjecture, Pioneer Conjecture Birch & Swinnerton -Dyer conjecture, Yang-Mills & mass gap, Riemann Hypothesis, P VS NP Problem, Navier-Stokes Equations.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

Branches of Research

Pure Mathematics	Applied Mathematics
1. Algebra	1. Combinatorics
2. Algebraic Geometry	2. Probability and Statistics
3. Analysis & Differential Equations	3. Analysis & Differential Equations
4. Number Theory	4. Functional Mathematics
5. Geometry	5. Mathematical Biology
6. Mathematical Logic & Foundations	6. Scientific Computing
7. Topology	7. Mathematical Physics
8. Representation Theory	8. Miscellaneous Research Areas

From Dr PRADEEP KUMAR R to All
Dr PRADEEP KUMAR R, Assistant
Professor, GSSSIETW, Mysuru

Dr. Siva Raman, Asst. Professor, explaining about the useful concepts in the area of research in the field of Mathematics

Branches of Research

Combinatorics

Combinatorics concerns the study of discrete objects. It has applications in diverse areas of mathematics and science, and has played a particularly important role in the development of computer science. While it is arguably as old as counting, combinatorics has grown remarkably in the past half century alongside the rise of computers. It borrows tools from diverse areas of mathematics. Examples include the probabilistic method, which was pioneered by Paul Erdős and uses probability to prove the existence of combinatorial structures with desirable properties, algebraic methods such as in the use of algebraic geometry to solve problems in discrete geometry and extremal graph theory, and topological methods beginning with Lovász' proof of the Kneser conjecture. A notable application in number theory is in the proof of the Green-Tao theorem that there are arbitrarily long arithmetic progressions of primes. The branches of research in combinatorics are probabilistic combinatorics, extremal combinatorics, algebraic combinatorics, additive combinatorics, combinatorial geometry and applications to computer science.

Dr. Siva Raman, Asst. Professor, explaining about combinatorics which is an area in the field of Mathematics.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

FACULTY DEVELOPMENT PROGRAM ON MATHEMATICS FOR COMPUTER SCIENCE

Name of the Event: Faculty Development Program (Attended)

Topic: Mathematics for Computer Science

Date: 30th -31st May 2020

Plat form: CISCO WEB-X Meeting

Resource person: Dr. D. G Jayasree, Associate Professor, Dept. of Statistics, O.U

Participants: Mr M Prashanth, Ms T Swapna, Mr V Naveen Kumar

No. of Participants: 03

A Two-Day online Faculty Development programme was conducted by Loyola Academy Degree college, Alwal, Secunderabad on Mathematics for Computer Science from 30th - 31st May 2020. The resource person was Dr. D. G Jayasree, Associate Professor, Dept. of Statistics, O.U. On the first day she spoke about Optimization which consists of variable constraints, objective functions. Linear & non-linear programming, quadratic, geometric, dynamic. Next session was by Dr. T. Appala Naidu Assistant Professor C. R. Rao Advanced Institute of Mathematics, Statistics & Computer Science He explained about the methods in Cryptology. Cardinality of Primes, Fundamental Theorem of Arithmetic, checking for Prime numbers, Euler-phi-Functions, Fermat's little theorem, Euler's theorem, Generating primes, groups, rings, Fields, Factorization methods Chinese Remainder Theorem, Symmetric & Asymmetric key cryptography RSA & public key cryptosystem.

Second day of the first session was by Prof M A Srinivas, Head Dept of Mathematics, JNTU, Hyd. He spoke about the advantages of technology in the present situation. He discussed about the open source where we can have already developed animation of the mathematical concepts and to make custom animations. The last session was by Venkata Sundaranand Putcha Prof, Head Dept of mathematics & Registrar (Rayalaseema university Kurnool). He explained about the randomness & cryptography. The session came to an end with a valedictory function.

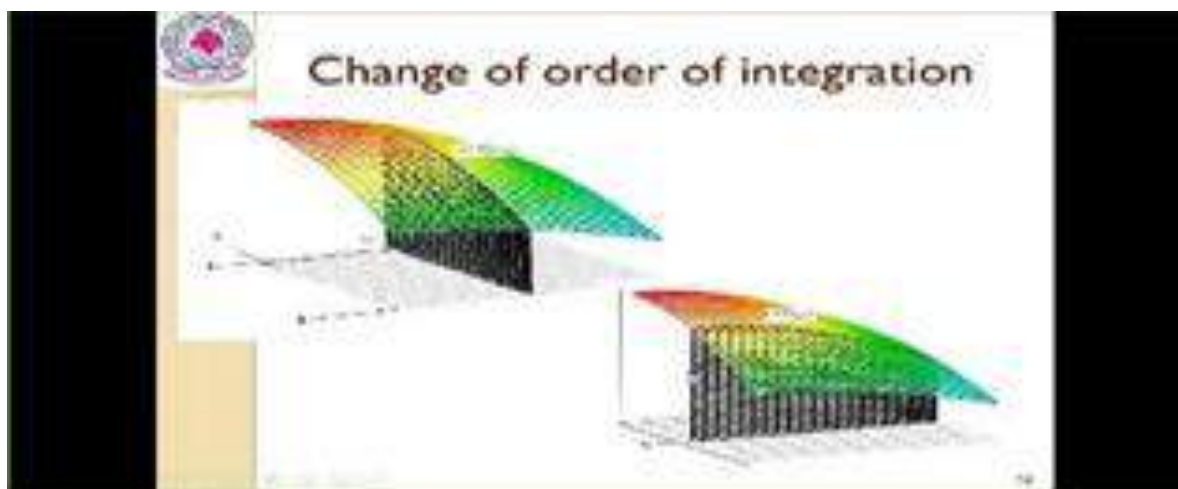


Little Flower Degree College

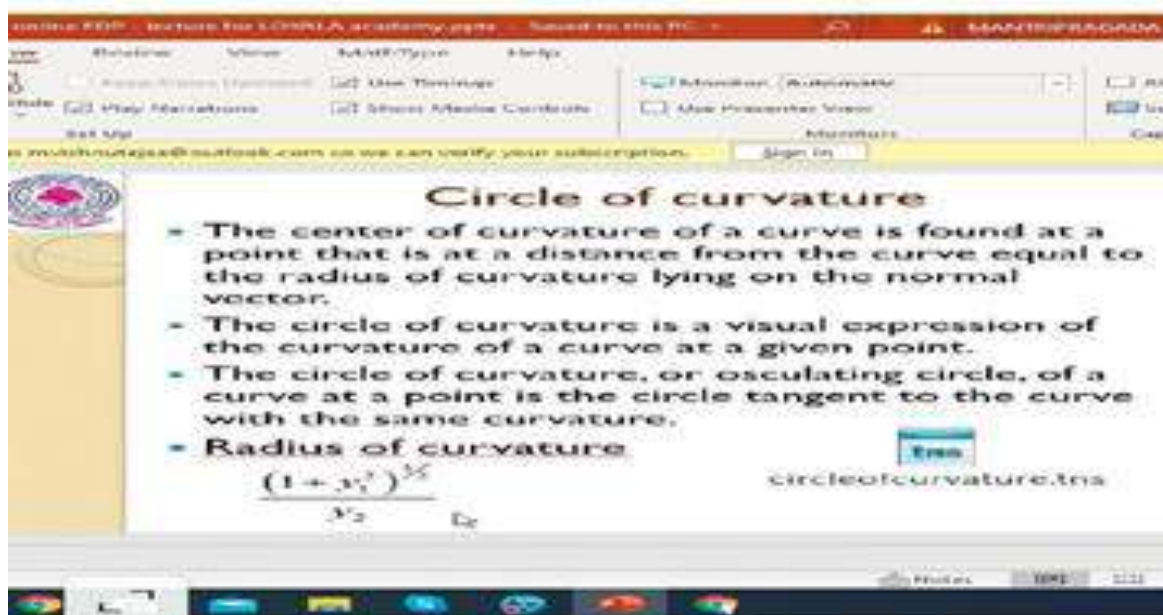
(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Dr. G. Jayasree, Associate professor explaining the concepts of change of order of integration



Dr. G. Jayasree, Associate professor explaining the concepts of Circle of curvature



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

SEVEN DAY INTERNATIONAL FACULTY DEVELOPMENT PROGRAMME

ON

MATHEMATICS MODELLING IN MULTIDISCIPLINARY DOMAIN

Name of the Event: Seven Day Faculty Development Program (Attended)

Topic: Mathematics Modelling in Multidisciplinary Domain

Date: 1st -7th June 2020

Platform: Google Meet

Resource person: Mr. Shankar Giridhar, Mr. D. Charan Kumar, Dr. K. Anandh, Dr. Jagdish Chand Bansal, Dr. Manoj Sahni, Dr. Rajnish Mallick, Dr. Nita Hasmukh Shah

Participants: Mr M Prashanth,

No. of Participants: 01

Seven Day Faculty Development Program was conducted by Bannari Amman institute of Technology in Mathematical modelling in Multidisciplinary domain from 1st- 7th June 2020. The main objective of the FDP is to define the combination and involvement of more than one discipline in Mathematics.

The session started with introducing the resource person Prof. H. Shah, Dept. of Mathematics, Gujarat University Ahmedabad by convenor of the program. She spoke about the COVID - 19 transmission and measures to control the disease from the chaotic scenario in elderly people.

Second day of the session was Mr. Shakar Girdhar, Business Analyst, Aifo RND Solutions was on Health in Numbers which includes on Drug development life cycle, pre-clinical and emerging industry tools.

Third day of the session was by Dr. K. Anandh IFS, Lecturer, Central Academy for state Forest Service spoke on Mathematics & Forest Mensuration mainly focussed on measurement of logs and growth of trees and how we can maximise the production.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

Fourth day of the session was by Dr. Jagadish Chand Bansal, Asst. Professor, South Asian University spoke on swarm intelligence, spider Monkey optimization, Artificial Bee colony, Ant colony optimization.

Fifth day of the session was by Dr. Rajnish Mallick, Data Scientist on Dimensionality Reduction and its applications in science.

Sixth day of the session was by Mr. D. Charan Kumar, Senior Consultant, Boston, USA on Careers in Identity & Access Management mainly on the identity Management overview, Governance certification and career & skills which are required.

Seventh day of the session was by Dr. Manoj Sahni, Dept. of Mathematics, Pandit Deendayal Petroleum University. He gave a brief introduction about the Fuzzy sets, Extensions of Fuzzy sets, Applications of Fuzzy logic, Advantages of Fuzzy logic and Artificial intelligence. The webinar ended by presenting the vote of thanks by Dr. P. Geetha convenor of the program.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

SEVEN DAY INTERNATIONAL FACULTY DEVELOPMENT PROGRAMME

ON

INSTITUTIONAL BENCHMARKING OF BEST PRACTICES

Name of the Event: Seven Day Faculty Development Program (Attended)

Topic: Institutional Benchmarking of Best Practices

Date: 8th -14th June 2020

Plat form: Google Meet

Participants: Mr M Prashanth,

No. of Participants: 01

Seven Day Faculty Development Program was conducted by Sri Mallikarjuna College of Arts, Science, and Commerce in Institutional Benchmarking of Best Practices from 8th- 14th June 2020. The main objective of the FDP is to underline and establish the baseline standards for skill competency and efficiency in educational institutions.

Mr. M. Prashanth attended the Seven Day Faculty Development Program on Institutional Benchmarking of Best Practices. The chief guest of the program was Dr. Ganesh Hedge, Advisor, NAAC. Sir explained the Accreditation framework & five Core values of NAAC and the importance of NAAC Accreditation. He mainly stressed cooperation and collaboration with the colleges.

Dr. Usha Mukundan, Director of HVPS Mumbai explained about curricular aspects and design and development of Autonomous colleges. The last session was handled by Dr. Surendra Thakur Desai, Head, Dept. of Geography, who gave a detailed explanation of the best practices in curriculum planning and implementation in Affiliated colleges.



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society



Dr. Ganesh Hedge, Advisor, NAAC explaining the Core values of NAAC, importance of NAAC



Dr. Ganesh Hedge explaining the Core values of NAAC, importance of NAAC, Benchmarking generic and cross induction