St. Joseph's Degree & P.G. College

Department of Mathematics & Statistics

Annual Report 2015-16

Programme title: Orientation Programme for I Years

Date: 29.6.2015

Objective:

The major objective of the programme was to make the students aware of the academic aspects of the course, the rules and regulations of the Institution to provide a smooth transition for the students into the new environment of the Institute.

About Programme:

First year students often feel ill-equipped academically and emotionally, hindering their integration and adjustment into campus life. During orientation, students will be made aware of opportunities to be socially integrated into the college culture. If students do not become socially integrated within the first few weeks of their arrival, they are less likely to stay at that institution. Social activities can include parties, games, concerts, icebreakers, and hang-out time. Students also can learn about the various student committees and departmental clubs in which they can be involved.

The programme was inaugurated with the lighting of the lamp by the Assistant Vice principal, academic coordinator and other dignitaries.

Rev.Fr.Vincent Arokiadas, Principal of the college, while delivering a speech on the occasion, said that it was not the events but the attitude that caused success. He also stressed the importance of dedication to one's profession.

Mr.Raj Kumar, Academic Coordinator Science, briefed the students about the rules and regulations of the institute and requested the students to understand and abide by the institutional rules and norms.

Entry level feedback revealed strong academic support for the initiatives, with the Department of Science students reporting their orientation experience significantly positive.

Bridge course:

• A bridge course test for all the B.Sc First—year students was conducted on 16th august 2015for 105 students. The Department has conducted a bridge course for the students who secured less than 35% of marks on differentiation, differential equations, and integration to help the students in better understanding the syllabi in the present curriculum.

Parent - Teacher Meet

- The Parent teacher meeting for the first year parents was conducted on 22nd August 2015 by the proactive initiation of the department where the faculty of the department interacted with the parents and discussed with each parent their ward's attendance and performance during the first internal.
- The parent feedback is taken on the curriculum and infrastructural facilities of the college and is filed in the department. An Analysis on the parent feedback is in progress using the SPSS software.
- The Department took initiation in monitoring the student attendance and all the students who are having less than 50% are called along with the parents and parents are given feedback on their ward's attendance percentage and parent and student undertakings are taken and filed.

Club Events:

- An Aptitude test for 3rd B.Sc students was conducted on 29th June to know their aptitude levels so that the Department could plan a few classes on aptitude for these students to face various competitive exams, entrance exams and placement opportunities provided to them in a successful way.
 - Pre-placement Talk was organized on 1stJuly 2015 for B.Sc Final Year students to
 encourage the science students to get an idea about interviews and to get placed in
 reputed organizations. 49 registered students attended it. Students were advised to
 focus on English Vocabulary, Aptitude and Numerical Ability, Personality
 Development and Basics in Computers.

- The Department resumed its Math Club activity which features a comprehensive set of interactive arithmetic, logic & brain twisting Problems which involve some novel way of thinking or looking at the problem from an unexpected viewpoint. Students who take various standardized tests such as SAT, GRE, GMAT, CAT and other MBA and MCA tests in which Math is one important skill tested will find these very helpful.
- P Santhosh Kumar, K Ankith, BalaArun and Gouravshukla of BSc NHAEM III Year students participated in "TECHNOVANZA" Inter Collegiate Compitition, Organised by Department of Computer Science & Department of Mathematics on 20th August 2015 at Little Flower Degree College, Uppal, Hyderabad

REPORT ON IQ Test

The Department of Mathematics and Statistics conducted a Quiz competition "IQ TEST" on 1st October 2015. The Event garnered a massive response and 102 students in 34 teams from various streams participated in this event. The Quiz competition was conducted in two rounds. A written test was conducted for 30 minutes consisting of 25 questions in the first round. 6 teams were selected out of 34 teams for the second round. The second final round was conducted to all the six final teams through seven rounds.

- > General round consisting of one question to each team.
- Logic round consisting of three questions to each team.
- ➤ A Collage of nine pictures was given to each team
- ➤ Read out the colour round consisting of two questions to each team
- > Guess Me round consisting of two questions to each team
- > Just a minute round with one question to each team
- ➤ Rapid Round consisting of three questions to each team

All the questions of the written as well as final round were a measure of analytical reasoning ability which tested several factors of intelligence, namely logical reasoning, creativity, keen observation, lateral thinking and general knowledge and also ability to classify things according to various attributes.

The Prize Distribution Ceremony took place immediately after the quiz program. Principal Rev.

Fr. Vincent Arokiadas congratulated the winners and distributed the prizes for the winners.

A Cash prize of Rs.1000 and a memento to each student was given to the

Winners - GRATUS, NILESH, AKASH

A cash prize of Rs. 600 and a memento to each participant was given to the

1st Runners- PRATHYUSHA, SRAVANI, VAISHNAVI

A cash prize of Rs.400 and a memento to each participant was given to the

2nd Runners – PRABHU KUMAR, YASH RAJ, MONISH





















Report of Certificate Course in Numerical Ability –September – 2015

Name of the Activity: Certificate Course in Numerical Ability

Nature of the Activity: Student Centric

Incharge /Coordinator: D. Srinivas Reddy

Date: 22nd August– 19th September, 2015

Title: Numerical Ability

Venue: Room No: 302

Target Group: All the under graduate students of the college

No. of Participants: 60 students.

Resource Person & Organization: Department of Mathematics in collaboration with CLiCK

Institute.

Objective:

➤ To enhance the arithmetic abilities of the students through various shortcut methods.

> To create a confidence among the students to face various entrance exams like, ICET, CAT, and MAT etc.

➤ To make the students competent enough to face all competitive exams like, BANK, LIC, GROUPS etc.

At the end of the course, the participants will be able to gradually master many areas of Arithmetic. About the Activity: The Certificate course in Numerical Ability was conducted from 22^{nd} Aug to 19^{th} September for the enrolled 60 students in collaboration with Click Institute. An overview session on the "Numerical Ability" certificate course was conducted on 15.09.2015. The certificate course exam was conducted on 17^{th} of September 2015; about 60 students of various streams have attended the examination. The certificate course examination papers are evaluated by the faculty.

Photos:



Feedback (if any): 1. The training objectives for each topic were identified and followed.

- 2. Good tricks and methods covered in all necessary chapters and very help full revising mathematics.
- 3. This course really help full to us in interviews of companies and all competitive exams.
- 4. Students requested to conduct the course in a continued stretch in convenient timings for them so that they could be benefited to a maximum extent.
- 5. This course quit good improving and making stronger our basics.
- 6. The syllabus was organized and easy to follows.
- 7. Students felt that the course was very useful for placements and for various entrance examinations

Report On Alumni Association Meet – 2015:

"Alumni Association Meet – 2015" was held on 19th September 2015 at Joseph's Hall for the Degree & PG Courses. There were twenty-five alumni members attended the meet and shared their views to the students and staff. The program was started with prayer by Rev. Fr. Richard, Vice-principal, followed by prayer song sung by college choir. Mrs. AparnaSathe, MC of the program gave an introductory talk of the significance of Alumni Association Meet.

Rev. Fr. Richard, for President of alumni meet, appreciated the alumni members of their immense support in framing syllabus, technical inputs for students and staff, providing placement opportunities to our students, active participation and valuable suggestions during BoS meetings, admissions into various courses, suggestions on improving quality education and help rendered for preparing industry-ready curriculum design. He thanked them for their continue support and service towards the growth of this institution. Mr. Michael, Vice-president gave a motivational speech about the alumni association and their functioning. He also appreciated the management for giving him opportunity to purse the right course at right time which helped him to achieve his career growth.

The students of B.Sc and B.Com performed cultural programmes and entertained the alumni members. The alumni interaction was meticulously planned and executed by Mrs. R. Anitha and alumni members expressed their intension for attending the alumni association meet. Finally the formal vote of thanks proposed by Mr. M. Joseph Rajakumar, Convener, Alumni Association committee. The program was concluded with group photograph and high tea.

Department of Science Placement details for end of odd semester 2015-16

Date	Company	Appeared	Selected	CTC
3-7-2015	Amazon	16		
9-9-2015	Wipro	26	14	1.5L &1.62-
				2.76L
15-9-2015	Sutherland	19		1.32-2.04L
6-10-2015	Uniysys	35	4	2.15L
8-12-15	Genpact	26	1	
12-01-2016	Minacs(International)		4	1.4L

25-01-2016	MPhasis	 4	2.9L
11-02-2016	Infosysis	 4	2.17L
10-03-2016	Verizon	 1	3.7L
27-012016	Synchrony financials	 Pending	2.4L

National Mathematics Day: The National mathematics day was celebrated on 22nd December 2015.

Report of Power Point Presentation Competition

The Department of Mathematics & Statistics conducted a **Power Point Presentation**Competition on 21st December 2015 at 1.30 PM on the topic "Mathematicians or Statisticians and their Contributions" on the eve of National Mathematics Day on 22nd Dec 2015. The participants gave a presentation on the history of theeminent Mathematicians& Statisticians, their achievements and Contributions to the respective fields in brief.



Guest Lecture: The Department of Mathematics and Statistics has organized a lecture on the great Mathematician, SrinivasaRamanujan at 11:00 AM for B.SC. I Year students in Joseph hall by the resource person M.S. Ramesh, Senior Faculty in Tapasya academy, Himayatnagar, Hyderabad. The Lecture was about the life of SrinivasaRamanujan and his extraordinary contributions to Mathematical analysis. The winners of power point presentation competition were recognized with token of appreciation by Mr. M.S.Ramesh.





Report on workshop:

The workshop on "Analysis, Number theory & Probability theory- A conceptual study" was organized by Osmania University college for women, Department of Mathematics from 9th Feb' 2016 to 11th Feb 2016. The workshop was sponsored by Alladi Memorial Trust.

Day-1

The workshop started with the lightening of the lamp. The proceedings started with the welcome of the guest and the introduction of the Alladi memorial trust and Prof.B.VRao.

The first session began at 12PM. The Resource person was Prof.B.VRao, His lecture was on probability.

The second session was taken over by Prof. Kannan. His lecture was on Infinite sets. The second session was followed by a tea-break. Tea break was quite beneficial to interact with the faculty and other guests.

The third session was taken over by Prof. RajatTandon. He delivered the lecture on Number theory wherein Countable & Uncountable sets were stressed more.

Day-2

There were 3 lectures on the second day of the workshop.

The first session began at 10:30AM by AlladiSitaram on Analysis where he demonstrated that **e** and **pi** are irrational numbers.

The third session was taken over by Prof. Kannan on Infinite sets.

The fourth session was taken over by Prof. RajatTandon

Day-3

The workshop began at 10:30AM.

The first lecture was immediately started by Prof. B.V Rao on probability. The second lecture was taken over by AlladiSitaram on Analysis. Thereafter the third session began at 2:30PM which was taken by Dr. Gadhadar Mishra. His lecture was based on the opportunities in Mathematics.

The last session was taken by Prof.RajatTandon on Number theory.

The workshop ended with the Valedictory.

The Valedictory started with the felicitations by the HOD of Mathematics, OUCW to the Guests.

Thereafter certificates for the student participants were given.

There was a photo session at the end of the workshop.

The workshop played a vital role in understanding of the subject in a different perspective. The advancements and opportunities in the subject was an enriching experience.

Photos:



Department of Mathematics & Statistics

Faculty Paper Publication/Presented- Details

Faculty	Type of	Article title	Name of Journal/Paper	Year of
Name	Article		Presentation	Publication
	(National or			
	International			
Mr. D	International	High Dimensional	An expedition towards growth	18 th , 19 th & 20 th
Srinivas		Radial Barrier Options	and sustainability in commerce	Dec 2015 and
Reddy			and management: Trends,	presented and
			challenges and strategies	published with
				ISBN 978-93-
				85100-05-5
	National	Paper presented on	National Conference on "Role of	
		Signed Sequences and	Mathematics in Real World	
		Rolle's Restrictions:	Problems"	27 th & 28 th Feb
		Why Not All Real		2015
		Differentiable Functions		
		and Polynomials		
		Satisfying Rolle's		
		Theorem Are		
		Constructible		
	National	Paper presented on The	National Conference on "Role of	27 th & 28 th Feb
		effect of rigidity on	Mathematics in Real World	2015
Mrs.		torsional vibrations in a	Problems"	
Nampally		poroelastic cylinder		
Lakshmi	National	Paper presented on The	National Conference on "Role of	27 th & 28 th Feb
		omnipresent universe	Mathematics in Real World	2015
			Problems"	

Inte	ernational	A study about	An expedition towards growth	18 th , 19 th & 20 th
		mathematical teachers	and sustainability in commerce	Dec 2015 and
		under stress	and management: Trends,	presented and
			challenges and strategies	published with
				ISBN 978-93-
				85100-05-5

Minor Research Project:

A Minor Research Project Proposal was applied by Ms. NampallyLakshmi ,Asst Professor, Department of Mathematics & Statistics with the Project Title: Inter relationship between basic mathematical operations and development of cognitive abilities in children-In Nalgonda District.

Report for Josephiesta-2016

Puzzle Paradise (13.02.2016):

The department conducted a puzzle paradise event for **Josephiesta-2016** (**cultural feast**) at St Joseph's Degree & PG College. In this event, nine different types of puzzles were conducted. Numbers of participants are 15, but each participant playeddifferent number of events and puzzles. Students are received prizes and certificates

First prize: Manish - St. Joseph's Degree & PG College.

Second Prize: Kyathi – St. Joseph's Degree & PG College.

Third Prize: Srilaxmi – A.V. College, Dhomalguda, Hyderabad.

Student Achievements 2015-16

S. No	NAME	CLASS/GROUP	Prize	Activity
1	K Keerti	B.Sc II MPCS	Momento+cert	Kuchipudi Dance competitions
				at Ravindrabharathi
2.	U. Ravi	B.Sc II MSCS	Momento+cert	Qualified CA
	Krishna Reddy			
3	Prabhu Kumar	B.Sc II MSCS	Momento+cert	i. Meritorious in singing and
				Anchoring Gold medal From
				Home Minister
				ii. Nightingale of India award
				by Sangam Kala Group
4	Abdul Rehman	B.Sc II MSCS	Momento+cert	SAVE THE LAKE Organized
	K.Krunal			by St Francis's College for
	Kumar			Women at Sanjeevaiah Park
	KunalJaiswal			
	Azharalam			
5	GauravShukla	B. Sc III NHAEM	Momento+cert	Wild Life Photography
				i. Achieved Best of the team
				(All India) from DCP
				Expeditions and ii. Most
				Promising Group Leader.

Principal

Head D Srinivas Reddy Rev. Fr. Vincent Arokiadas