

*P. R. Government College (Autonomous),  
Kakinada*



*State Level  
Faculty Development programme  
On  
Project work in Mathematics*

**On  
27<sup>th</sup> October, 2017**

**Organized by**



*Department of  
Mathematics & Statistics*

**π – Club**



## About the college:

Pithapur Rajah's College, Kakinada which ranks among the earliest institutions of English Education in south India was started in 1852 and was raised to the status of a second grade college in 1884. The UGC conferred autonomous status from the academic year 2000-2001.

The college leaves no stone unturned to strengthen the existing infrastructural facilities for teaching, learning, evaluation, research and extension activities to transform this century old institution into a global level academic campus.

## About the Department:

Mathematics department is one of the oldest of this college. In B.Sc, Mathematics stream the department is having various combinations like MPC(TM), MPC (EM), MCPc, MCCs, MPCs, MSCs, MECs, MPE and MSAS. M.Sc. Mathematics course is running from 2014-15. Further NASSCOM & APSSDC has selected the college to start "Data Analytics" – A skill development course from December, 2015.

## Objectives of the Programme:

- To motivate the teachers on projects in Mathematics to be assigned to Final year degree students.
- To bring the awareness in teachers about the contents to be included in Mathematics project.
- To facilitate the Mathematics faculty to interact with the resource persons and other members for getting a clear idea about the projects in Mathematics.

**Chairman** : Dr. C. Krishna, Principal

### **Advisory Committee:**

Dr. R. David Kumar,

*Principal, Govt. College (A), Rajamahendravaram.*

Dr. K.V. Anandam,

*Principal, MVN JS & RVR College, Malikipuram*

Dr. K.L. Saraswathi,

*HOD of Mathematics, CHSD St. Theresa's College for Women, Eluru.*

Dr. P. Subhashini,

*Lecturer in charge, Dept. of Mathematics, GDC, Ramachandrapuram.*

### **Organizing Committee:**

Sri T. Vara Prasad, I/C Dept. of Chemistry & Vice Principal

Dr. K. Jyothi, I/C Dept. of Physics & Electronics

Dr. K. Hari Rama Prasad, I/C Dept. of Hindi

Dr. K. Subhashini, Lec. In Economics

Sri P.V. Krishna Rao, Lec. In English

*Guest Faculty in Mathematics and Statistics Department*

Ms. N. Suneetha  
Ms. V. Hari Priya  
Ms. G. Subha  
Ms. T. Varsh  
Mr. S. Raj Kumar  
Mrs. C. Chinnamamba

**Convener: Dr. V. Anantha Lakshmi,**

I/C Dept. of Mathematics & Statistics  
9963786386

### **Registration:**

Participants are requested to make spot registration at 9.00 am by paying **registration fee 100/-**.

Further, the participants are requested to confirm their participation to the mail [mathsprgc@gmail.com](mailto:mathsprgc@gmail.com) on or before 24-10-2017.

### **Programme Scheduled**

**Registration : 9.00 am to 9.30 am**

**Inaugural Function : 9.30 am to 10.00 am**

**Chairman : Dr. C. Krishna, Principal**

**Chief Guest : Prof. P.V. Arunachalem,**  
Former Vice chancellor of Dravidian  
University, Kuppam

**Guests of Honor : Dr. R. David Kumar, Principal,**  
Government College (A), Rajamahendravaram.  
**Dr.A.K.S.Chandrasekhar Rao,**  
Dept. of Mathematics, D.N.R.College (A),  
Bhimavaram.

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**Session I (10.00 to 11.30 am)**

**Resource Person:** Prof. P.V. Arunachalem,  
**Tea Break: 11.30 am to 11.45 am**

**Session II (11.45 am to 1.00 pm)**

**Resource Person:** Dr. K.V.Anandam, Principal, MVN JS &  
RVR College, Malikipuram  
**Lunch Break: 1.00 pm to 2.00 pm**

**Session III (2.00 to 3.15 pm)**

**Resource Person:** Dr. R. David Kumar

**Session IV (3.15 to 4.30 pm)**

**Resource Person:** Dr. K. Venkata Rao,  
Lecturer in Mathematics, GDC, Alamuru  
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**Valedictory Function : 4.45 pm to 5.15 pm**

**Chairman : Dr. C. Krishna, Principal**

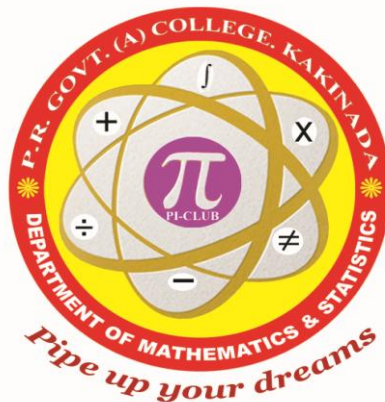
**Chief Guest : Prof. S. Teki, Dean, Academic Affairs,**  
AKNU, Rajamahendravaram

**Guest of Honour : Prof. B.V.Subba rao, Retired Professor**

P.R.GOVERNMENT COLLEGE (AUTONOMOUS),  
KAKINADA



DEPARTMENT OF MATHEMATICS AND STATISTICS



REPORT ON FACULTY DEVELOPMENT PROGRAMME  
ON  
“PROJECT WORK IN MATHEMATICS”

27-10-2017

## **REGISTRATION: (9.00 am to 10.00 am)**

The registration was started at 9.00 am. From Srikakulam, Visakhapatnam, East Godavari, West Godavari and Guntur districts 104 members are participated in the programme. Final year students and the staff of the college are participated in the programme.



## **INAUGURATION : (10.00 am to 11.15 am)**



Ms. V. Hari Priya, guest faculty in Mathematics invited the guests on to the dais. The programme is started with prayer by the students and followed the lighting the lamp by resource persons. The incharge principal Dr. K. Jyothi, presided the programme and she has spoken about importance of projects in UG level and appreciated the organisers for initializing this innovative programme. Chief guest of the programme Prof. P.V. Arunachalam, former vice chancellor of Dravidian University, Kuppam explained the participants that Mathematics has the three valuable qualities of human life “Satyam, Sivam and Sundaram”. Dr. A.K.S. Chandrasekhar Rao, HOD of Mathematics, Sri D.N.R.College (A), Bheemavaram shared his personal experiences to the participants about the logical thinking capacity of Mathematics background persons and how they apply that efficiency for solving the problems. Prof. B.V. Subba Rao, retired professor of Mathematics enlightened the participants about the applicability of Boolean Algebra in coding and decoding. Dr.V.Anantha Lakshmi, convener of the seminar presented the objectives and theme of the Programme to the participants. Ms. Y. Padmaja, lecturer in Mathematics, GDC, Pithapuram proposed vote of thanks.



PRAYER



LIGHTING THE LAMP



OPENING REMARKS BY THE INCHARGE PRINCIPAL DR. K. JYOTHI



MESSAGE BY PROF. P.V. ARUNACHALAM, FORMER VICE CHANCELLOR OF  
DRAVIDIAN UNIVERSITY, KUPPAM





**DR. A.S.K. CHANDRASEKHARA RAO, HEAD OF THE DEPARTMENT OF MATHEMATICS, SRI D.N.R. COLLEGE (A), BHEEMAVARAM**



**PROF.B.V. SUBBA RAO, RETIRED PROFESSOR IN MATHEMATICS**





**OBJECTIVES OF THE PROGRAMME BY DR. V. ANANTHA LAKSHMI,  
LECTURER IN CHARGE, DEPT. OF MATHEMATICS AND STATISTICS &  
CONVENER**



**VOTE OF THANKS PROPOSED BY MS. Y. PADMAJA, LECTURER IN  
MATHEMATICS, GDC, PITHAPURAM**

## **Session I (11.30 a.m. to 1.00 p.m.)**

Dr. K.L. Saraswathi, HOD of Mathematics, St. Theresa's College (A), Eluru introduced the resource person of this session Prof. P.V. Arunachalam.

In this session Prof. P.V. Arunachalam has discussed the following points:

- Why Choose a Project?
- Opportunities to do Project Work
- Project Based Learning : PBL
- Problem Based Learning
- PBL Vs. Problem Based Learning
- List Of Individual or Team Projects





**PROF. P.V. ARUNACHALAM, FORMER VICE CHANCELLOR OF DRAVIDIAN UNIVERSITY, KUPPAM**





**LUNCH BREAK ( 1.00 pm to 2.00 pm )**



## Session II (2.00 pm to 3.15 pm)

**Sri C. Chitti Babu**, lecturer in Mathematics, GDC, Ramachandrapuram, E.G.Dt. introduced the resource person of this session Dr. K. V. Anandam, Principal, MVN JS & RVR College, Malikipuram, E.G.Dt.

Dr. K.V. Anandam enrich the knowledge of participants on projects in Numerical Analysis.

Some of them are

- Methods of curve fitting and some applications using 'c'.
- Numerical differentiation and integration methods- some applications using 'c'.
- Numerical solutions of Algebraic and Transcendental equations using 'c'.

a) Solution of system of non-Linear equations using

- i) Method of Iteration.
- ii) Newton-Raphson Method.

- Numerical solution of ordinary differential equations using 'c'.

Smt. K. Parameswari, Lecturer in Mathematics, GDC, Ganapavaram, W.G.Dt. proposed vote of thanks.





**DR. K. V. ANANDAM, PRINCIPAL, MVN JS & RVR COLLEGE, MALIKIPURAM, E.G.DT**



### **Session III (3.15 pm to 4.30 pm )**

Ms. Y. Padmaja, Lecturer in Mathematics, GDC, Pithapuram introduced the resource person Dr. K. Venkata Rao, Lecturer in Mathematics, GDC, Alamuru. Dr. K. Venkata Rao has given clarity to the participants about the difference between Research Oriented Project and Study Project. He has given the format for a project. He also enhance the knowledge of participants on Project works in group theory.

Some model project he had given are

- Graphical Approach to Group Theory.
- Interpretation of some group concepts geometrically.
- Cayley graphs to some finite groups.
- Concepts in group theory in the context of Rubik Cube.
- Categorical study of groups.





**DR. K. VENKATA RAO, LECTURER IN MATHEMATICS, GDC, ALAMURU**



### **Valedictory of the seminar: (4.30 pm to 5.00 pm)**

Ms. T. Varsha Sri, guest faculty in Mathematics invited the guests on to the dais. The In charge principal Dr.K. Jyothi congratulated the faculty members in Department of Mathematics and Statistics for the successful organisation of the programme. Dr. V. Anantha Lakshmi, convener of the programme had given a brief report on the programme. The chief guest Prof. S. Teki, Dean Academic Affairs, Adi Kavi Nannayya University, Rajamahendravaram appreciated the organisers and participants for making this innovative programme grand success. The guests Prof. B.V. Subba Rao, Dr. K.V. Anandam and Dr. K. Venkata Rao expressed their satisfaction about the organisation of the programme. Sri Bhaskara Rao, Lecturer in Mathematics, GDC, Guntur had given his feedback on the programme. He feel that this programme has provided the topics can be selected for doing project work and the format of a project work. He felt very happy for the hospitality, arrangement of invited talks. Dr. P.Subhashini, Lecturer in Mathematics, GDC, Ramachandrapuram proposed vote of thanks. This programme was concluded with National Anthem.





**PROF. S. TEKI, DEAN, ACADEMIC AFFAIRS, ADI KAVI NANNAYYA UNIVERSITY, RAJAMAHENDRAVARAM**



**REPORT BY DR. V. ANANTHA LAKSHMI, CONVENER**





**FEEDBACK BY SRI BHASKARA RAO, LECTURER IN MATHEMATICS, GDC, GUNTUR**







**CERTIFICATES DISTRIBUTION TO THE PARTICIPANTS**







**FELECITATION TO PROF. S. TEKI, DEAN ACADEMIC AFFAIRS, ADI KAVI  
NANNAYYA UNIVERSITY, RAJAMAHENDRAVARAM**



**FELECITATION TO DR. A.K.S. CHANDRASEKHAR RAO, HEAD OF THE  
DEPARTMENT OF MATHEMATICS, SRI D.N.R. COLLEGE (A),  
BHEEMAVARAM**





**FELECITATION TO PROF. B.V. SUBBA RAO, RETIRED PROFESSOR IN MATHEMATICS**



**FELECITATION TO DR. K.V. ANANDAM, PRINCIPAL, MVN JS & RVR COLLEGE, MALIKIPURAM**





**FELECITATION TO DR. K. VENKATA RAO, LECTURER IN MATHEMATICS,  
GDC, ALAMURU**



**FELECITATION TO DR. K. JYOTHI, INCHARGE PRINCIPAL**



3. Sri P.V.V.Satyanarayana                      Lecturer in charge, Dept. of Politics

**6. CERTIFICATES PREPARATION AND ISSUE COMMITTEE**

- |                            |                                      |
|----------------------------|--------------------------------------|
| 1. Dr. P. Hari Ram Prasad  | Lecturer in charge, Dept. of Hindi   |
| 2. Sri B.Ali Baba          | Lecturer in charge, Dept. of Zoology |
| 3. Sri D. Rama Rao         | Lecturer in Chemistry                |
| 4. Ms. V. Hari Priya       | Lecturer in Mathematics              |
| 5. Sri T. Venkateswara Rao | Lecturer in Zoology                  |
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