

# Resolution NO- 01

DATE 8/10/2019

A meeting of faculties and student representative of Department of Other Mathematics was held on 10.10.2019 under the Chairmanship of HOD to discuss the departmental activities during the Session 2018-19. The members present in the meeting unanimously decided to request principal to send the invitation to the resource person Dr Rajendra Kumar Ghosh Sr. Lecturer in Mathematics of Khair College Khair, Balasore for departmental Seminar titled as "Number theory and Cryptography".

Further department took decision to organise Welcome and farewell Ceremony, Study tour programme.

Finally the meeting reviewed the result of final year of examination of 2018 and 2019. Where as the faculties express their satisfaction over the results. Total no. of Students appeared is equal to 16. Total passed in the examination is equal to 12 and rest of Students could not success.

The meeting ended with making a resolution to take extra class to complete the course content and make a resolution that those who are not coming to last class regularly they will be not allowed to appear examination if their attendance percentage is less than 75 percent.

The meeting ended with vote of thanks to Chair.

K. P. Pandey  
HOD, Other Mathematics  
Simul College, Markona  
Balasore

Suryakant Panda (Lect. in Math.)  
8/10/2019

Tanmay Bala (3rd year Sc.)

Chandrakanti Das (3rd yr sc.)

Umesh Kumar Behera (3rd yr sc.)

Bismaya Kumar Behera (3rd yr sc.)

Kirtipranga Panda (3rd yr sc.)

Khitish Nayak (+3 3rd yr sc.)

Pula priyanka mishra (+3 1st yr sc.)

Mama Senapati (+3 1st yr sc.)

Pankaj Samal (+3 1st yr sc.)

Urbasi Behera (+3 3rd yr sc.)

Biswasit Malik (+3 3rd yr sc.)

Sasmita Hazira (+3 3rd yr sc.)

Ranjan Swain (+3 2nd yr sc.)

Goutam Sial (+3 2nd yr sc.)

Binaya Roul (+3 2nd yr sc.)

Anuja Nayak (+3 2nd yr sc.)

Chinmaya Ku. Roul (+3 1st yr sc.)

Farjan Khan (+3 1st yr sc.)

Parasuram Behera (+3 1st yr sc.)

Biswasit Panigrahi (+3 2nd yr sc.)

Abhishek Swain (+3 2nd yr sc.)

Manoranjan Malik (+3 2nd yr sc.)

Anil Nayak (+3 3rd year sc.)

Kupatara Behera (+3 3rd yr sc.)

Hemanta Roul (+3 2nd yr sc.)

Subhashree Nayak (+3 1st yr sc.)

Debasish Mohapatra (+3 1st yr sc.)

Bhagabata Roul (+3 1st yr sc.)

Krishnanani Ojha (+3 1st yr sc.)

Sachitananda Nayak (+3 2nd yr sc.)

Sukanta Lenka (+3 2nd yr sc.)

Jharana Behera (+3 2nd yr sc.)

Ganesh Das (+3 3rd yr sc.)

Kisan Monhar Mohanty (+3 3rd yr sc.)

Prasanta Khatua (+3 3rd yr sc.)

Akash Ku. Patra (+3 3rd yr sc.)

Baikuntha Sethi (+3 1st yr sc.)

Ananya Panda (+3 1st yr sc.)

Hemanta Behera (+3 1st yr sc.)

Susanta Ku. Biswal (+3 3rd yr sc.)

Bhagyirekhi Sena (+3 3rd yr sc.)



Office of the Principal

# SIMULIA COLLEGE

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Website : [www.simuliacollege.org.in](http://www.simuliacollege.org.in), e-mail : [principalsimulia126@gmail.com](mailto:principalsimulia126@gmail.com)

Letter No.....417.....

Date.....7/10/2019.....

To

Sj. Rajendra Ku. Ghosh  
Reader in Mathematics.  
Khaira College, Khaira, Balasore

Sub: Request to attend the mathematics seminar as Resource Person

Sir,

I am to inform you that the Department of Mathematics is going to organize a seminar on the topic "Number Theory & Cryptography" on 10-10-2019 at 10:30 A.M so you are requested to attend the seminar as Resource Person.

This is for your kind information and necessary action.

Yours faithfully,

  
Principal  
Simulia College  
Markona, Balasore

Copy forwarded to the principal, Khaira College, Khaira, Balasore for Information and request to him to allow Sj. Rajendra Ku. Ghosh to attend the programme.

  
Principal  
Simulia College  
Markona, Balasore

Office of the principal  
Simulia college, Markona

Notice No: - 417(A)

Date: - 03/10/2019

A meeting of the mathematics department will be held on 06-10-2019 at 3:00 P.M in the department room. All the faculty members and student representative are informed to attend the same for discussing about organising the seminar.

*K. S. S. S.*  
HOD 03/10/2019

Department of Mathematics  
HOD Math  
Simulia College, Markona  
Balasore

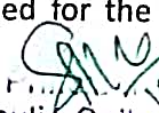
Copy to Office/ TCR/BCR/GCR/Notice Board

Office of the principal  
Simulia college, Markona  
Notice No: - 479(A)

Date: - 10/10/2019

The Departmental Seminar of mathematics Will be held on 10-10-2019 at 01:30 P.M in the smart class room on the topic "Number Theory & Cryptography". Hence all the students of the department are here by instructed to participate in the seminar and the other staff members of different faculties are also requested to remain present to make the seminar a grand success.

Further all the +3 class of mathematics department shall remain suspended for the said purpose. From 01:00 P.M

  
Principal  
Simulia College  
Markona, Balasore

Copy to Office/ TCR/BCR/GCR/Notice Board

## SEMINAR ABSTRACT

YEAR : 2019 - 20

Name of the Seminar : Number Theory and Cryptography.

No. of participants:

Date : 10/10/2019.

### Activity Report:

Under the Chairmanship of Kamal Bawan Lenka the department Seminar was conducted. Prof Rajendra Ku' Ghosh Reader in Mathematics Khaira College Khairi Balasore joined as a resource person of the Seminar. Three no. of students presented their paper on the topic. Remaining students and staff members of the department kept their opinion on the topic.

### Abstract of the topic:

Many tools in Number Theory like primes, divisors, Congruencies and Euler's  $\phi$  functions are used in Cryptography for security. Prime numbers - A positive integer  $p$  is said to be a prime if it has only two factors namely 1 and  $p$  itself.

Cryptography is the branch of Mathematics that provides the techniques for Confidential exchange of information sent by via possibly insecure channels.

Cryptography has remained important over the centuries used mainly for military and diplomatic communication. With the advent of internet and electronic commerce. Cryptography has become vital for functioning of global economy. Sensitive information such as bank records, credit card reports, password or private is encrypted, modified in such a way that hopefully, it is only understandable to people who should be allowed to have access to it. Cryptography is also known practical means for protecting information transmitted through public communication networks such as those using telephone lines, microwaves or satellites.

Every Number theory tool plays an important role in cryptography to hide

Information.

Idea of Cryptosystem in the Context of  
algebra and Number Theory.

Students who  
Presented their  
Paper

Rajendra Prasad  
10/10  
(Resource person)

Kamal Bhanu Leela.  
10/10/2019.

HOD Mathematics  
Simulia College, Markona  
Bardhaman

Spandan  
10/10/2019

Prakash Kumar Pattanayak

Prabir W. Ghosh

Imamchick  
10-10-19

Purpus  
10.10.19

N.  
10.10.19

①  $2^{2n} + 2^{2n-1} + 2^{2n-2} + \dots + 2^2 + 2 + 1$

② Chandrahasini Das.

③ Kirti Prangya Panda.

④

