

Report of the International Conference on Algebra and Related Topics (ICART- 2019) conducted by the Department of Mathematics, Panampilly Memorial Government College, Chalakudy on 13th and 14th of December 2019 sponsored by NBHM, SERB(DST) and the Department of Collegiate Education, Government of Kerala, Thiruvananthapuram.

The department of Mathematics conducted an International Conference on Algebra and Related Topics on 13th and 14th December, 2019. The conference was initiated based on the plan fun sanctioned by the Director of Collegiate Education, Thiruvananthapuram. But based on the further request to various government agencies, the conference was financially supported by CSIR, NBHM, and SERB (DST). Subsequently, an organizing committee was constituted for smooth conduct of the conference. Internationally well-known eminent resource persons in the related field of Mathematics around the globe were invited for the programme.

The foreign resource persons, who agreed to deliver invited talks on the conference are *Dr John C Meakin*, Professor of Mathematics, University of Nebraska-Lincoln, NE 68588-0323, United States, *Dr Jorge Almeida*, Departamento de Matematica Pura, Faculdade de Cijncias Universidade do Porto, Rua do Campo Alegre, 687, 4169-007 Porto, Portugal, *Dr Laszlo Marki*, Alfred Renyi Institute of Mathematics Hungarian Academy of Sciences, Budapest, H-1364 Budapest, Pf. 1, Hungary, *Dr Mikhail Volkov*, Department of Algebra and Discrete Mathematics, Institute of Mathematics and Computer Science, Ural Federal University, 620000-Ekaterinburg, Russia, *Dr Nguyen Van Sanh*, Department of Mathematics, Faculty of Science, Mahidol University, Rama 6 Road, Rajadhevee, Bangkok 10400, Thailand, *Dr Pham Ngoc Anh*, Alfred Renyi Institute of Mathematics, Hungarian Academy of Sciences Budapest, H - 1364 Budapest Pf. 127, Hungary, *Dr. Pascal Weil*, Professor of Mathematics, Department of Mathematics, CNRS and Bordeaux University, Bordeaux, France, *Dr. Guterman A E*, Professor, Faculty of Algebra, Department of Mathematics and Mechanics, Moscow State University, Russia, Moscow, *Dr. Frederique Bassino*, Professor of Mathematics, Paris-Nord Computer Science Laboratory, UMR CNRS 7030 Galileo Institute - Paris 13 University, 99, France, *Dr. Azeef Muhammed P. A.*, Assistant Professor of Mathematics, Department of Mathematics and Natural Sciences, Prince Mohammad Bin Fahd University, Al Khobar, Kingdom of Saudi Arabia and *Dr. Laure Daviaud*, Professor, School of Mathematics, Computer Science and Engineering, Department of Computer Science, University of London, Northampton Square, London, United Kingdom.

The resource persons from India who agreed to deliver invited talks on the occasion are *Dr Rajan A R*, Former Professor and Head, Department of Mathematics, University of Kerala, Trivandrum, Kerala and presently the Director, Kerala State Encyclopaedic Publications, Government of Kerala, Thiruvananthapuram, *Dr Krishnan E.*, Department of Mathematics, University College, Trivandrum, *Dr Ramesh Kumar P.*, Department of Mathematics, University of Kerala, Thiruvananthapuram, *Dr Romeo P G.*, Department of Mathematics, Cochin University of Science and Technology, Cochin, and *Dr Tamizh Chelvam T.*, Department of Mathematics, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India.

Smt. Vigneshwari V., IAS, Director of Collegiate Education, Government of Kerala, Thiruvananthapuram was the special invitee for the conference. A website, 'www.sites.google.com/site/icart2019math/', dedicated to the conference was created and launched. The first announcement of the conference was made through the website and brochure. An email is circulated to around 150 universities. Around 300 invitation letters and nearly 300 brochures were sent by post to various colleges and institutions in Kerala and various universities all over India. Renowned heads of the departments were invited in person. Invitations were circulated within the college too. Along with this, a press meet was conducted at Thrissur for wide publicity of the event. Online registration for the conference was done by 203 persons from all over India.

On Friday, the 13th of December 2019, registration started at 8.30 a.m. **15** resource persons (including **9** Foreign resource persons), **70** teachers from various colleges in Kerala and **5** from outside Kerala, **17** research scholars (12 from outside Kerala and 5 from Kerala), **2** M.Phil. scholars and **44** Postgraduate students from various colleges, a total of **153** participated in the Conference. The College Conference Hall and Edusat Room were the venues of the Conference.

The inaugural session started at 9.15 a.m.

The inaugural session started with the prayer by Kumari Deepthi Dinesh, Kumari Krishnendu T A, Kumari Nandana A. B. and Kumari Sreelekshmi Suresh. **Dr. G N Prakash**, Head of the Department of Mathematics welcomed the gathering. In his welcome speech, he specifically honoured and remembered *Prof. Dr K. S. S. Nambooripad*, the then living legend of Mathematics. He was remembered as the key person who bonded all the national and international resource persons. All the participants bowed and prayed for his blessings.

The Principal, **Dr. Aravind Krishnan K** presided over the function. In his presidential speech, he highlighted the importance of the International Conference as well as the relevance of the topic of the conference.

Smt. Vigneshwari V, IAS, Director of Collegiate Education, Government of Kerala, Thiruvananthapuram inaugurated the conference by jointly lighting the lamp with **Dr. John C Meakin**. In her inaugural speech, she explained the importance of the topics and some recent advances in this area. **Dr. John C Meakin**, University of Nebraska-Lincoln, USA delivered a keynote address. **Dr. A. R. Rajan**, former Professor and Head of the Department of Mathematics, University of Kerala, Kariavattom, Academic Secretary of ICART delivered the concept note of the conference. In the absence of Vice Principal, **Dr. Jojomon N A**, **Dr. Parvathy B**, Head of the Department of Malayalam felicitated. Since Dr. Parvathy B is retiring from her long service, the department honoured her with a memento, presented by **Smt. Vigneshwari V, IAS**. **Sri. Albert Antony T**, Assistant Professor of Mathematics, Joint Convener and Treasurer of the Conference expressed vote of thanks. The inaugural session concluded at 10.00 a.m. with National Anthem.

The session I of the conference started at 10.15 a.m. in Conference Hall. In this session, **Dr. John C Meakin**, University of Nebraska-Lincoln, US delivered his talk on "Algorithmic Problems in Algebra". The session was chaired by **Dr. Jorge Almeida**. The first session concluded at 11.10 a.m. after the interaction of the participants with these resource persons.

Tea and snacks were served in the Final year M.Sc. Mathematics Class Room.

Session II of the conference started at 11.35 am in the Conference Hall. In this session, **Dr. Pascal Weil** from CNRS and Bordeaux University, 63 rue Jean Soula, 33000 Bordeaux, France delivered his talk on "Representing subgroups of free groups and computing with them". The session was chaired by **Dr. Mikhail Volkov**. Many participants interacted with them. The second session concluded at 12.30 pm.

A photo session was arranged by the organizing team to take a group photo of all the participants from 12.30 p.m. to 12.45 p.m.

Lunch was served to all the participants and resource persons in the College Auditorium.

The session III of the conference started at 2.00 p.m. in the Conference Hall. In this session, **Dr. Alexander E Guterman**, Faculty of Algebra, Department of Mathematics and Mechanics, Moscow State University, Russia delivered his talk on "On Kravtsov conjecture".

about permanent" followed by **Dr. Frederique Bassino**, Paris-Nord Computer Science Laboratory UMR CNRS 7030(LIPN), Universite Paris, France, who delivered a talk on "Counting and random generation of finitely generated subgroups of a free group". The third resource person of the session was **Dr. Azeef Muhammed P A**, Department of Mathematics and Natural Sciences, Prince Mohammad Bin Fahd University, Kingdom of Saudi Arabia, whose talk was on "Structure of Semigroups: A Nambooripad Perspective". The session was chaired by **Dr. Rajan A R**. The participants interacted with them. The third session concluded at 4.25 p.m.

Tea and snacks were served in the Final year M Sc Mathematics Class Room. The session IV started at 4.45 p.m in the College Conference Hall. The session was chaired by **Dr Nguyen Van Sanh**. The session was co-chaired by **Dr Jeepamol J Palathingal**. In this session, about four participants presented their papers detailed as follows:-

Archa S S, Research Scholar, Department of Mathematics, University of Kerala, Thiruvananthapuram, Kerala, India on "Data Compression of Sensor arrays using Bezier Curves"; **Ashitha Tom**, Department of Mathematics-DDE, Madurai Kamaraj University, Madurai, Tamil Nadu, India on "Cohen-Macaulayness of Unit Graphs"; **Rabikka V**, Department of Mathematics-DDE, Madurai Kamaraj University, Madurai, Tamil Nadu, India on "Weiner Index of Unit Graph Associated with Commutative Ring"; **Vibitha Kochamani**, Centre for Research in Mathematical Sciences, St Joseph's College, Irinjalakuda, Thrissur, Kerala, India on "Hash functions using Free Generators theorem over Projective General Linear Group". The other participants interacted with them. The fourth session came to an end at 5.25 p.m.

A Cultural Programme was arranged by the students of the college to entertain the participants of the Conference, which started at 6.00 p. m in College auditorium. The programme was inaugurated by **Dr. Babu C C**, the Controller of Examinations, University of Calicut. Various traditional items were performed by the students constituted National Integration Programme, Mime, Thiruvathira, Margom kali, Oppana, Nadodi Nritham, Group Dance, Solo and Duet Songs and Vande Matharam. All the participants were happy about this feast to them. In between this, the birthday of Ms. Susana Volkov, wife of Prof. Mikhael Volkov was celebrated. The programme came to an end at 9.00 p.m.

Dinner was served to the participants in the College auditorium and was over at night.

On Saturday, 14th of December 2019, the second day of the conference, registration started as usual at 8.30 a.m. Breakfast was served to the delegates and participants in College auditorium. All the participants arrived at the venue by 9.00 a.m., and the sessions started at 9.15 a.m.

The session V of the conference started at 9.15 a.m. in the Seminar Hall. In this session, **Dr Mikhail Volkov** from Department of Algebra and Discrete Mathematics, Institute of Mathematics and Computer Science, Ural Federal University, Ekaterinburg, Russia delivered his talk on "*Smart Search: a Practical Facet of Theoretical Mathematics*" followed by **Dr. Jorge Almeida**, Departamento de Matematica Pura, Universidade do Porto, Portugal who delivered his talk on "*Locally countable pseudovarieties.*" The sessions were chaired by **Dr John C Meakin**. The participants interacted with the delegates. The fifth session concluded at 11.10 a.m.

Tea and snacks were served in the Final year M Sc Mathematics Class Room

The session VI of the conference started at 11.25 a.m. in the Conference Hall. In this session, **Dr Laure Daviaud**, School of Mathematics, Computer Science and Engineering, Department of Computer Science, University of London, UK delivered her talk on "*An Introduction to the Algebraic Theory of Rational Languages (and a little bit of topology.....)*" followed by **Dr Tamizh Chelvam T**, Department of Mathematics, Manonmanian Sundaranar University, Tirunelveli, Tamil Nadu, India, who delivered a talk on "*Trace Graph and its Complement of Matrices over a Commutative Ring*". The session was chaired by **Dr Pascal Weil**. Many participants interacted with them. The sixth session concluded at 1.00 p.m.

Lunch was served to all the participants and resource persons in the College Auditorium.

The session VII of the conference started at 2.00 p.m. in the College Conference Hall. In this session, **Nguyen Van Sanh**, Department of Mathematics, Centre of Excellence in Mathematics, Mahidol University, Bangkok, Thailand, delivered his talk on "*Primeness in Module Category: An Introduction to Prime Radicals, Nil Radicals and Levitzki Radicals of modules*" followed by **Dr Rajan A R**, Department of Mathematics, University of Kerala, Thiruvananthapuram, India, who delivered a talk on "*Normal Categories of Certain Special Classes of Semigroups*". The session was chaired by **Dr Tamizh Chelvam T**. The participants interacted with the delegates. The seventh session concluded at 3.20 p.m.

Tea and snacks were served in the Final year M Sc Mathematics Class Room.

The session VIII of the conference started at 3.30 p.m in the Edusat Room in session **Dr Romeo P G**, Department of Mathematics, Cochin University of Science and Technology, Cochin who delivered a talk on "*Proper Categories arising from Semigroups*". followed by **Dr. Ramesh Kumar P**, Department of Mathematics, University of Kerala, Thiruvananthapuram who delivered a talk on "*On Semigroups over Skew Lattices*". The session was chaired by **Dr Frederique Bassino**. The participants interacted with the delegates. The eighth session concluded at 4.35 p.m.

The Valedictory Ceremony commenced at 4.35 p.m. The ceremony was presided over by the Vice Principal, **Dr Jojomon N A**. **Dr A R Rajan**, **Dr. G N Prakash**, **Dr. John C Meakin** and **Sri Albert Antony T** adorned the dais. **Sri Albert Antony T**, Joint convener and the Treasurer of the conference welcomed the gathering. **Dr A R Rajan** evaluated the conduct of the conference, **Dr. John C Meakin** from the United States and **Dr Mikhail Volkov** from Russia, and **Dr Laure Daviaud** from the UK, representing the delegates appreciated the time management and the overall conduct of the conference. Some of the participants also expressed their feedback. Feedback was collected from all the participants in writing. All of them confined to the opinion that the objective of the conference was achieved. They were all satisfied with the conduct of the conference and promised to join the college whenever it constituted an event in future. The certificates were distributed to the resource persons and participants during the ceremony. **Dr G N Prakash**, Head of the Department and Convener of the Conference expressed vote of thanks and gratitude to all for making the dream of International Conference a success. The ceremony was concluded at 5.00 p.m with the National Anthem.

The resource persons were accommodated in the Siddhartha Hotel and the participants in the PWD Rest Guest House. All the teaching and non-teaching staff had unanimously contributed for the success of this International Conference.

The charge of publicity was taken up by Sri Girish M C lead by Dr Jojomon N A. The finance was handled by Dr. Madhusoodanan Kartha N V and Sri Sumesh S (Head Accountant), headed by Sri Shinto M Kuriakose. The reception of the conference was managed by Smt Sini G, Smt Jismy M J, Smt Sruthy K Velayudhan and Kum. Vidhya K Soman, lead by Dr Jomy John. The stage and programmes were arranged by Dr Leena Samuel, Smt Kadambari P G and Sri Ajith P B, headed by Smt Jeepamol J Palathingal. The food committee constituted Dr Sathian M K, Smt Swapna R and Sri Krishnadas K, lead by Sri Sunilkumar M. Accommodation for the resource persons and participants were arranged


by the team constituting Sri Pushparajan M M, and Smt Tintu Devassy, lead by Sri Albert Antony T. Transportation for the resource persons and participants were effectively arranged by Sri Krishnakumar P G, and Sri Sreejith Y, headed by Sri Thomas Mathew. The cultural programme was arranged for entertainment to the participants by Dr Parvathy B, Sri Sreedharan P N and Sri Tobio P D, lead by Smt Asha Carol Antony and Smt Sisa S. Compering was lead by Dr Deepa K S, Dr Sreerexha N and Smt Sumayya Khalid. Local hospitality was taken care of by the entire office staff headed by Sri Binu C Babu (Senior Superintendent).

All the local bodies such as Municipality, KSEB, Kerala Police, BSNL, Water Authority and News-Press also extended their wholehearted support.

We had received strong moral and financial and support from Smt. Haritha Vijay IAS, the former Director of Collegiate Education, Smt. Vigneshwari V, IAS, the present Director of Collegiate Education and Dr Suma K K, Additional Director of Collegiate Education, starting from the initial stages of the conference itself. Moreover, the ORICE team of Directorate of Collegiate Education was present in the college, for the live telecast of the International Conference.

We are grateful for financial support rendered from NBHM vide order numbers No. NBHM/Conf.128/2019 dated November 13, 2019 and No. 02010/39/2019/R&D-II/15255 dated 12, 2019 for a sum of Rs. 75,000/- and from SERB (DST) for a sum of Rs. 75,000/- via file no SSY/2019/000951 dated 07-Nov-2019. We also acknowledge academic support from Institute of Mathematics Research and Training (IMRT), Thiruvananthapuram.

The International Conference on Algebra and Related Topics (ICART-2019) was a grand success which was well appreciated by all members and delegates. Involvement of 153 participants from within and outside the state, was a wonderful incident and for many of them, it was an unforgettable experience. It was a challenge to conduct an international conference at the college, as it was the first of its kind. The feedback received from attendees confirms that the event is majorly deemed successful and that participants enjoyed a pleasant and productive experience.


Dr. G. N. Prakash
(Convener ICART-2019)
Associate Professor and Head
Department of Mathematics
Panampilly Memorial Government College,
Chalakydy, Thrissur.

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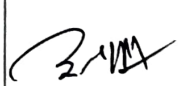






The Department of Mathematics

Panampilly Memorial Government College, Chalakudy

Sponsored by DCE, NBHM and SERB (DST)

2019, December 13 and 14.

Registration

Sl. No	Name	Designation and Official Address	Signature
1	Smt. V Vigneshwari IAS	Director of Collegiate Education, Trivandrum	
2	Aravind Krishnan K	Principal Panampilly Memorial Government College, Chalakudy	
3	Alexander E. Guterman	Faculty of Algebra Department of Mathematics and Mechanics, Moscow State University, 119991, GSP-1, Russia, Moscow	
4	Azeef Muhammed P. A.	Assistant Professor Department of Mathematics and Natural Sciences, Prince Mohammad Bin Fahd University, Al Khobar Kingdom of Saudi Arabia	
5	Frederique Bassino	Professor Paris-Nord Computer Science Laboratory UMR CNRS 7030 (LIPN), UMR CNRS 7030, 93430 Villetaneuse - France	
6	John C Meakin	Professor Department of Mathematics University of Nebraska-Lincoln, Lincoln, NE 68588- 0323, US	
7	Jorge Almeida	Professor Departamento de Matematica Pura, Faculdade de Cijncias, Universidade do Porto, Rua do Campo Alegre, 687, 4169-007 Porto, Portugal	
8	Laure Daviaud	School of Mathematics, Computer Science and Engineering, Department of Computer Science, University of London, United Kingdom	
9	Mikhail Volkov	Professor Department of Algebra and Discrete Mathematics, Institute of Mathematics and Computer Science, Ural Federal University, 620000- Ekaterinburg, Russia	
10	Nguyen Van Sanh	Professor Department of Mathematics, Faculty of Science, Mahidol University, Rama 6 Road, Rajadhevee, Bangkok 10400, Thailand	

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Registration

Sl No	Name	Designation	Department	Office Address	State	Signature
✓ 16	Aarathi S	Assistant Professor	Department of Mathematics	PSG College of Arts and Science, Coimbatore	Tamil Nadu	
✓ 17	Aelyamma P J	Assistant Professor	Department of Commerce	Maharaja's College, Ernakulam	Kerala	
✓	Alphy Jose	Assistant Professor	Department of Mathematics	Little Flower College, Guruvayoor	Kerala	_____
✓ 18	Anantharaman S	Research Scholar	Department of Mathematics	Annamalai University, Annamalainagar	Tamil Nadu	
✓ 19	Anil Kumar P U	Assistant Professor	Department of Mathematics	Government Arts & Science College, Santhanpara, Idukki	Kerala	
✓ 20	Anitha T	PG student	Department of Mathematics	Sri Vyasa NSS College, Wadakkanchery	Kerala	
✓ 21	Anuja Thankappan	PG student	Department of Mathematics	Carmel College, Mala	Kerala	
✓ 22	Apsara Peethambaran	Assistant Professor	Department of Mathematics	Thejus Engineering College, Vellarakkad	Kerala	
✓ 23	Archa S S	Research Scholar	Department of Mathematics	University of Kerala, Kariavattom, Thiruvananthapuram	Kerala	
✓ 24	Archana S	M.Phil. Scholar	Department of Mathematics	Government College, Chittur, Palakkad	Kerala	
✓ 25	Arikrishnan A	Research Scholar	Department of Mathematics	Annamalai University, Annamalai Nagar	Tamil Nadu	
✓	Aritra Roy	PG student	Department of Mathematics	Banaras Hindu University, Varanasi	Uttar Pradesh	_____
✓ 26	Ashitha Tom	Research Scholar	Department of Mathematics-DDE	Madurai Kamaraj University, Palkalai Nagar, Madurai	Tamil Nadu	
✓ 27	Ashok Kumar M G	Assistant Professor	Department of Mathematics	Sanatana Dharma College, Alappuzha	Kerala	
✓ 28	Ayana Vijayan	PG student	Department of Mathematics	Carmel College, Mala	Kerala	
✓	Deepa V G	Assistant Professor	Department of Mathematics	Sree Krishna College, Guruvayur	Kerala	_____
✓ 29	Deepthi A N	Assistant Professor	Department of Mathematics	Sree Narayana College, Nattika, Thrissur	Kerala	

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Sl. No	Name	Designation	Department	Office Address	State	Signature
✓ 30	Dhanyashree Vinay	Assistant Professor	Department of Mathematics	SMVITM, Bantakal, Uduppi	Karnataka	
✓ 31	Diana Mary George	Assistant Professor	Department of Mathematics	St. Mary's College, Thrissur	Kerala	
✓ 32	Diviya K D	Assistant Professor	Department of Mathematics	S N College, Nattika, Thrissur	Kerala	
✓ 33	Elavarasan B	Assistant Professor	Department of Mathematics	Karunya University, Coimbatore, Tamilnadu	Tamil Nadu	
✓ 34	Emily Ittiachan	Vice-Principal		Naipunnya Institute of Management and Information Technology, Pongam, Koratty	Kerala	
—	Femi K J	PG student	Department of Mathematics	Sacred Heart College, Chalakudy	Kerala	—
✓ 35	Filsy Francis V	Assistant Professor	AS & H Department	Thejus Engineering College, Vellarakkad	Kerala	
✓ 36	Gopi R	Assistant Professor	Department of Mathematics	Srimad Andavan Arts and Science College, Tiruchirappalli	Tamil Nadu	
✓ 37	Harish V N	Assistant Professor	Department of Mathematics	Sree Kerala Varma College, Thrissur	Kerala	
—	Jaraldpushparaj S	Research Scholar	Department of Mathematics	Sacred Heart College (Autonomous), Tirupattur	Tamil Nadu	—
✓ 38	Jebapresitha B	Research Scholar	Department of Mathematics	Karunya Institute of Technology and Sciences, Subramaniyapuram, Karaikudi	Tamil Nadu	
✓ 39	Jeesma Jojo	PG student	Department of Mathematics	St. Josephs College, Irinjalakkuda	Kerala	
✓ 40	Jestin M G	Assistant Professor	Department of Physics	K. K. T. M. Government College, Pullut	Kerala	
✓ 41	Jino Nainan	Assistant Professor	Department of Mathematics	St. Gregorios College, Kottarakara, Kollam	Kerala	
✓ 42	Jinsmol Janardanan	Assistant Professor	Department of Mathematics	Government Engineering College, Thrissur	Kerala	
✓ 43	Jubiya K J	PG student	Department of Mathematics	Carmel College, Mala	Kerala	

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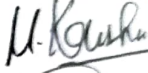

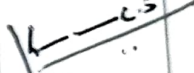
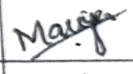






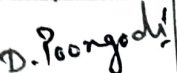
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Sl. No	Name	Designation	Department	Office Address	State	Signature
	Karthik S	Research Scholar	Department of Mathematics	Manonmaniam Sunaranar University, Tirunelveli	Tamil Nadu	
✓ 44	Karthika S	Research Scholar	Department of Mathematics	St. Thomas' college (Autonomous), Thrissur	Kerala	
✓ 45	Keerthika V	Research Scholar	Department of Mathematics	Karunya Institute of Technology and Sciences, Subramaniyapuram, Karaikudi	Tamil Nadu	
✓ 46	Kiruthika G	Research Scholar	Department of Mathematics	Bharathiar University PG Extension and Research Centre, Erode	Tamil Nadu	
✓ 47	Krishna M	Assistant Professor	Department of Mathematics	Sree Kerala Varma College, Thrissur	Kerala	
✓ 48	Krishnapriya C R	Guest Faculty	Department of Mathematics	Sri C Achutha Menon Government College, Thrissur	Kerala	
✓ 49	Kurian C Soman	Assistant Professor	Department of Mathematics	Union Christian College, Aluva	Kerala	
✓ 50	Mariya Anto	PG student	Department of Mathematics	St. Joseph's College, Irinjalakkuda	Kerala	
✓ 51	Mary Shalet T J	Assistant Professor	Department of Mathematics	Government College, Chittur, Palakkad	Kerala	
✓ 52	Meenakshi S	Research Scholar	Department of Mathematics	Karunya Institute of Technology and Sciences, Subramaniyapuram, Karaikudi	Tamil Nadu	
✓ 53	Megha T M	PG student	Department of Mathematics	Christ College (Autonomous), Irinjalakuda	Kerala	
✓ 54	Mini Joshy	Assistant Professor	Department of Mathematics	Naipunnya Institute of Management and Information Technology, Pongam, Koratty	Kerala	
✓ 55	Mythily C V	Research Scholar	Department of Mathematics	Bharathiar University PG Extension and Research Centre, Erode	Tamil Nadu	
✓ 56	Nidhin T J	Assistant Professor	Department of Mathematics	Sacred Heart College, Chalakudy	Kerala	
✓ 57	Poongodi D	Research Scholar	Department of Mathematics	Bharathiar University PG Extension and Research Centre, Erode	Tamil Nadu	

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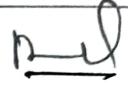

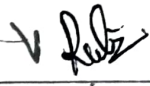


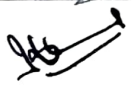





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Sl. No	Name	Designation	Department	Office Address	State	Signature
✓ 58	Prabu J	Junior Research Fellow	Department of Mathematics	Amrita Vishwa Vidyapeetham University, Sivakasi	Tamil Nadu	
✓ 59	Prasanth G N	Assistant Professor	Department of Mathematics	Government College, Chittur, Palakkad	Kerala	
✓ 60	Preenu C S	Assistant Professor	Department of Mathematics	University College, Thiruvananthapuram	Kerala	
✓ 61	Preethi C S	Assistant Professor	Department of Mathematics	Government College for Women, Thiruvananthapuram	Kerala	
✓ 62	Rabikka Veeramani	Research Scholar	Department of Mathematics-DDE	Madurai Kamaraj University, Palkalai Nagar, Madurai	Tamil Nadu	
✓ 63	Ramya G	Research Scholar	Department of Mathematics	Bharathiar University PG Extension and Research Centre, Erode	Tamil Nadu	
64	Ratnakumari K A	Assistant Professor	Department of Economics	Maharaja's College, Ernakulam	Kerala	
✓ 65	Reeja Kuriakose	Assistant Professor	Department of Mathematics	Government Polytechnic College, Koratty	Kerala	
✓ 66	Reeja Sachith	Assistant Professor	Department of Mathematics	Thejus Engineering College, Vellarakkad	Kerala	
67	Reshma Varghese	Assistant Professor on contract	Department of Mathematics	Carmel College, Mala	Kerala	
—	Sadhanandh Vishwanath B	Research Scholar	Department of Mathematics	Chennai Mathematical Institute, H1 Sipcot IT Park, Siruseri, Chennai	Tamil Nadu	—
—	Sailajaa Manoharan	PG student	Department of Mathematics	Pondicherry University, Kalapet	Puducherry	—
✓ 68	Santhosh Kumar K R	Assistant Professor	Department of Mathematics	Government College, Kariavattom, Thiruvananthapuram	Kerala	
—	Sathinathan T	Research Scholar	Department of Mathematics	Sacred Heart College (Autonomous), Tirupattur	Tamil Nadu	—
✓ 69	Shahana A R	Research Scholar	Department of Mathematics	St. Mary's College, Thrissur	Kerala	
70	Shajeeb P U	Assistant Professor	Department of Mathematics	Government Victoria College, Palakkad	Kerala	

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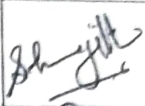
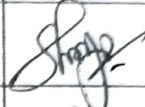

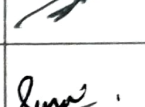
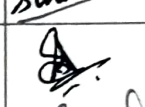
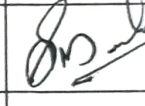


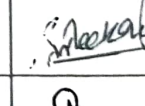


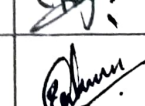
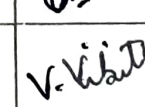
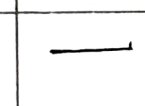
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Panampilly Memorial Government College, Chalakudy

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2019, December 13 and 14.

Registration						
Sl. No	Name	Designation	Department	Office Address	State	Signature
✓ ✓ 71	Shajitha T B	Associate Professor	Department of Mathematics	Naipunnya Institute of Management and Information Technology, Pongam, Koratty	Kerala	
✓ 72	Sheeja T K	Assistant Professor	Department of Mathematics	T. M. Jacob Memorial Government College, Manimalakunnu	Kerala	
73	Sibukumar D	Assistant Professor	Department of Mathematics	Government College, Attingal, Thiruvananthapuram	Kerala	
✓ 74	Simi Sebastian	Assistant Professor	Department of Statistics	Government College Kattappana, Idukki	Kerala	
✓ 75	Sinu N Vijayan	Research Scholar	Department of Mathematics	St. Mary's College, Thrissur	Kerala	
✓ ✓ 76	Smitha Davis	Assistant Professor	Department of Mathematics	Sacred Heart College, Chalakudy	Kerala	
✓ ✓ 77	Smruthi S	Assistant Professor	Department of Mathematics	Sree Kerala Varma College, Thrissur	Kerala	
✓ 78	Sona Pappachan	Assistant Professor	Department of Mathematics	Naipunnya Institute of Management and Information Technology, Pongam, Koratty	Kerala	
✓ 79	Sowmya K	Assistant Professor	Department of Mathematics	St. Mary's College, Thrissur	Kerala	
✓ 80	Sreekrishnan Namboothiri P V K	PG student	Department of Mathematics	Christ College (Autonomous), Irinjalakuda	Kerala	
✓ ✓ 81	Sreekumar S	Assistant Professor	Department of Mathematics	Government College for Women, Thiruvananthapuram	Kerala	
—	Sreelakshmi V U	Guest Faculty	Department of Mathematics	Union Christian College, Aluva	Kerala	—
✓ 82	Tina Blessy C J	Assistant Professor	Department of Mathematics	Thejus Engineering College, Vellarakkad	Kerala	
✓ ✓ 83	Vaishnavi S	M.Phil. Scholar	Department of Mathematics	Government College, Chittur, Palakkad	Kerala	
84	Vibitha Kochamani V	Research Scholar	Department of Mathematics	St. Joseph's College, Irinjalakkuda	Kerala	
8	Viji M	Assistant Professor	Department of Mathematics	St. Thomas' college (Autonomous), Thrissur	Kerala	—

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Registration

Sl. No	Name	Designation	Department	Office Address	State	Signature
—	Viji M	Assistant Professor	Department of Mathematics	St. Thomas' college (Autonomous), Thrissur	Kerala	—
✓ 85	Vinay Madhusudanan	Assistant Professor	Department of Mathematics	Manipal Institute of Technology, Manipal	Karnataka	<i>[Signature]</i>
✓ 86	Vishnupriya K	PG student	Department of Mathematics	Christ College (Autonomous), Irinjalakuda	Kerala	<i>[Signature]</i>
87	Mathai P V	Former Principal	Government College, Thanoor	Thanoor	Kerala	<i>[Signature]</i>
✓ 88	Shery Fernandez	Associate Professor	Department of Mathematics	Cochin University of Science and Technology, Ernakulam	Kerala	<i>[Signature]</i>
✓ 89	Prasad T	Assistant Professor	Department of Mathematics	Cochin University of Science and Technology, Ernakulam	Kerala	<i>[Signature]</i>

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Registration						
Sl. No	Name	Designation	Department	Office Address	State	Signature
90	Albert Antony T	Assistant Professor	Department of Mathematics	P M Government College, Chalakudy	Kerala	
91	Anjali Prakash	Assistant Professor	Department of Economics	P M Government College, Chalakudy	Kerala	
92	Asha Carol Antony	Assistant Professor	Department of Political Science	P M Government College, Chalakudy	Kerala	
93	Jeepamol J Palathingal	Assistant Professor	Department of Mathematics	P M Government College, Chalakudy	Kerala	
94	Jomy John	Assistant Professor	Department of Computer Science	P M Government College, Chalakudy	Kerala	
95	Krishnadas K	Assistant Professor	Department of Mathematics	P M Government College, Chalakudy	Kerala	
96	Krishnakumar P G	Assistant Professor	Department of Commerce	P M Government College, Chalakudy	Kerala	
97	Leena Samuel	Assistant Professor	Department of Hindi	P M Government College, Chalakudy	Kerala	
98	Martin K J	Assistant Professor	Department of Economics	P M Government College, Chalakudy	Kerala	
99	Prakash G N	Assistant Professor	Department of Mathematics	P M Government College, Chalakudy	Kerala	
100	Pushparajan M M	Assistant Professor	Department of Political Science	P M Government College, Chalakudy	Kerala	
101	Shinto M Kuriakose	Assistant Professor	Department of Economics	P M Government College, Chalakudy	Kerala	
102	Sini G	Assistant Professor	Department of Commerce	P M Government College, Chalakudy	Kerala	
103	Sisa S	Assistant Professor	Department of Political Science	P M Government College, Chalakudy	Kerala	
104	Sreedharan P N	Assistant Professor	Department of Commerce	P M Government College, Chalakudy	Kerala	

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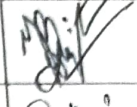
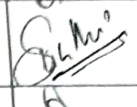

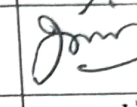
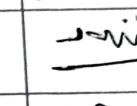
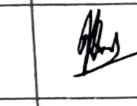

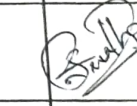

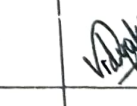
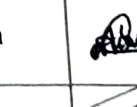
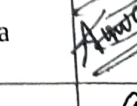
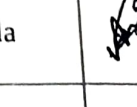
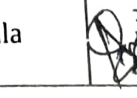
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Registration

Sl. No	Name	Designation	Department	Office Address	State	Signature
105	Sreejith Y	Assistant Professor	Department of Political Science	P M Government College, Chalakudy	Kerala	
106	Sunilkumar M	Assistant Professor	Department of Economics	P M Government College, Chalakudy	Kerala	
107	Swapna R	Assistant Professor	Department of Commerce	P M Government College, Chalakudy	Kerala	
108	Jismy M J	Associate Professor	Department of Mathematics	P M Government College, Chalakudy	Kerala	
109	Jojomon N A	Associate Professor	Department of Commerce	P M Government College, Chalakudy	Kerala	
110	Parvathy B	Associate Professor	Department of Malayalam	P M Government College, Chalakudy	Kerala	B. Parvathy
111	Sreerexha N	Associate Professor	Department of English	P M Government College, Chalakudy	Kerala	
112	Jinto E J	Guest Faculty	Department of Statistics	P M Government College, Chalakudy	Kerala	
113	Sruthy K Velayudhan	Guest Faculty	Department of Chemistry	P M Government College, Chalakudy	Kerala	
114	Tintu Devassy	Guest Faculty	Department of Mathematics	P M Government College, Chalakudy	Kerala	
115	Vidya K Soman	Guest Faculty	Department of Physics	P M Government College, Chalakudy	Kerala	
116	Aiswarya Bhaskaran	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
117	Aiswarya P M	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
118	Anitta Varghese	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
119	Anjana T.K	PG student	Department of Economics	P M Government College, Chalakudy	Kerala	

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

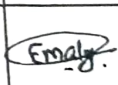

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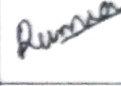
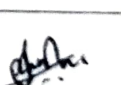

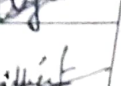
2019, December 13 and 14.

Registration

Sl. No	Name	Designation	Department	Office Address	State	Signature
129	Anju C S	PG student	Department of Economics	P M Government College, Chalakudy	Kerala	
129	Anju Shaji	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
129	Ankitha Merin Pauly	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
123	Aswathi P K	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
124	Athira K S	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
125	Athira O H	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
126	Athira T S	PG student	Department of Mathematics	P M Government College, Chalakudy	kerala	
129	Christy Judeson	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
128	Deepthi Das K S	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
129	Emaly Mariya George	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
130	Fayiza Rashid	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
131	Grace Baby	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
132	Greeshma T S	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
133	Jesmiya Joy Alven	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
134	Jisna Paul	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	

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Registration

Sl. No	Name	Designation	Department	Office Address	State	Signature
135	Krishnapriya C U	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
136	Rathi M R	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
137	Rosemol Kurian	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
138	Rumaiza U K	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
139	Sahla Farsana P	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
140	Silgi Jose	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
141	Soniya Babu	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
142	Sruthila C V	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
143	Suvarna Sundaran	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
144	Swathy P B	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
145	Syamily P S	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
146	Telja Johnson C	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
147	Thaniya Bind Thajudeen	PG student	Department of Mathematics	P M Government College, Chalakudy	Kerala	
148	Gopika Ravindran	Alumini	Department of Mathematics	P M Government College, Chalakudy	Kerala	

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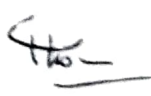
The Department of Mathematics

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2019, December 13 and 14.

Registration

Sl. No	Name	Designation	Department	Office Address	State	Signature
149	Kannaadip	P. Co Student	mathematics	Kakkathi (H) Kodaliara (P.O)	Kerala	
150	Deepa K.S	Asst Prof.	English	PMGC Chalakudy	Kerala	
151	Chithra.K.S	Alumini	Maths	PMGC	Kerala	
152	Sjithkumar.T.A	Former BOD	Mathematics	P. M. Govt. College Chalakudy	Kerala	
153	Thomas Mathew	Asst Professor	Economics	PMGC	Kerala	

Contact

Dr. G. N. Prakash
 Assistant Professor of Mathematics
 P. M. Government College, Chalakudy
 Potta, P. O. Pin - 680722.
 Thrissur (Dist), Kerala, India
 email: icartmathpage@gmail.com

Organizing Committee

Patron Smt. V. Vigneshwari IAS
 Director of Collegiate Education
 Government of Kerala

Chairman Dr. Aravind Krishnan. K.,
 Principal.

Convener Dr. G. N. Prakash
 Head of the Department

Academic Secretary Dr. A. R. Rajan
 Former Professor and Head,
 Department of Mathematics,
 University of Kerala

Joint Convener & Treasurer Sri Albert Antony. T.
 Assistant Professor

Members

Dr. Jojomon. N. A. (Vice Principal & IQAC Coordinator)

Dr. P. G. Romeo (Cochin University of Science and Technology)

Dr. Anilkumar. V. (University of Calicut)

Dr. P. Rameshkumar (University of Kerala)

Dr. Sunny Lukose (Secretary, IMRT)

Dr. Jonny John. (PMGC)

Smt. Jeepamol. J. Palathingal. (PMGC)

Smt. Magi. P. M. (PMGC)

Dr. Sathian. M. K. (PMGC)

Sri Krishanadas. K. (PMGC)

Prasanna. M. J. (PMGC)

Invited Speakers include

 John C. Meakin USA	 M. V. Volkov Russia	 Pascal Weil France
 Jorge Almeida Portugal	 Laszlo Marki Hungary	 F. Bassino France
 A.E. Guterman Russia	 N. Van Samh Thailand	 Laure Daviaud UK
 P. N. Anli Hungary	 Azeef M. P. A. Saudi Arabia	 T. Tannizh Chelvann-India
 Selvaraj C. India	 A. R. Rajan India	 E. Krishnan India



Panampilly Memorial Government College, Chalakudy
 (Affiliated to University of Calicut)



International Conference
 on
Algebra and Related Topics
 (ICART-2019)

December 13 and 14, 2019

Organized by
Department of Mathematics
 Academically Supported by
IMRT

Sponsored by

DCE, Government of Kerala,
 CSIR, NBHM and SERB (Anticipating)

Venue : College Conference Hall

Invitation

Dear Sir/Madam,

With immense pleasure, we would like to inform you that the Department of Mathematics, Panampilly Memorial Government College, Chalakudy is organizing a two day **International Conference on Algebra and Related Topics** on 13th & 14th of December 2019 with the academic support of the Institute of Mathematics Research and Training(IMRT). In this context, we cordially invite you to participate in the Conference.

With warm regards,

Dr. Aravind Krishnan. K.,
Principal.

Dr. G. N. Prakash
Convener (ICART-2019), Joint Convener &
Head of the Department, Treasurer,
+919447975520,
prakashgn1976@gmail.com alberantonyt@gmail.com

About the College

Panampilly Memorial Government College, Chalakudy, established in 1975 is wholly owned and managed by the Government of Kerala. Its inception has fulfilled the long cherished aspiration of the people of this semi-urban highland geographical entity. At present the College offers five UG and PG programmes. It is named after the late Panampilly Govinda Menon, an illustrious son of Kerala. The College is situated at Potta, 6 Km away from Chalakudy town.

Department at a Glance

The Department of Mathematics started functioning in 1998. In 2012, the Department was upgraded to a Post Graduate Department.

Currently, the Department offers graduate and post-graduate courses. The Department frequently organises national level seminars/workshops. From August 2016 onwards the Department has been conducting a monthly lecture series MATHLET (Mathematical Analysis Through Hearty Lectures by Eminent Teachers) for PG students.

About IMRT

The Institute of Mathematics Research and Training (IMRT) was established in 2015 under the leadership of Dr. K. S. S. Nambooripad (Former Professor and Head, Department of Mathematics, University of Kerala, Thiruvananthapuram). IMRT is aimed at encouraging and promoting facilities for fundamental research in the various branches of Mathematical Sciences including Pure Mathematics, Applied Mathematics, Statistics, Computer Sciences, Information Technology, Theoretical Physics and other related sciences. For more details visit imrt.org.in

About the Conference

Algebra is one of the major areas in Mathematics where significant contributions have been made from India. Being one of the foundational areas in Mathematics it is studied in the context of various applications. The focus of ICART-2019 is in providing an introduction to various new and emerging areas of research in Algebra and related topics. ICART-2019 intends to bring prominent senior speakers, and is geared primarily towards young researchers, teachers, postgraduate students as well as M.Phil scholars. The talks are mainly focussed to give foundations for PG students and budding new researchers. The current trends in international centres of research will also be discussed at the two day conference. We hope

this Conference will have a blend between formal presentations and somewhat less formal sessions that are more along the lines of "workshops" for young researchers and students.

The aim of the Conference is to elicit suggestions for research development for aspiring researchers. The Conference will be a platform for researchers from India and abroad to come together and exchange views and ideas on the topics of discussion, foster future collaborations and provide opportunity to young researchers in the relevant fields.

Thrust areas of the Conference

Theory of semigroups, Algebras, Group Theory Rings and Semirings, Categories and Groupoids Operator Semigroups, Theory of Languages and Automata, Applications.

Registration

Registration for the conference is mandatory. There is no registration fee. Those who wish to participate and present a paper in the conference are advised to register themselves through website of the conference (sites.google.com/site/icart2019math/) and upload the abstract of their paper through the easychair submission system latest by November 20, 2019. The list of selected participants will be published in the website.

The Department will provide course kit, lunch & snacks to the participants.

Accommodation will be arranged on the basis of cost sharing for the participants. For more details please visit the website or contact the Convener.

For further details visit

sites.google.com/site/icart2019math/ **MAY/10/2019**