



# MBITS MAR BASELIOS INSTITUTE OF TECHNOLOGY AND SCIENCE

Affiliated to APJ Abdul Kalam Technological University, Kerala & approved by AICTE, New Delhi  
Nellimattom P.O, Kothamangalam, Ernakulam District, Kerala-686 693, India  
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Under the auspices of Mar Thoma Cheria Pally, Kothamangalam

**Dr. P. Sojan Lal**

M.Tech., MBA(UK), PhD, I Eng(UK), FIE(India)  
Principal

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MBITS/012/2019

22<sup>nd</sup> November, 2019

## Sub: Principal's Annual Report on MBITS DAY 2019

We are pleased to enclose the Principal's annual report on MBITS DAY 2019.



Principal  
(Dr. P Sojan Lal)

SMA

To all faculty members & Students by e-mail/e-live

Copy to :

1. Web team for update
2. Notice Boards
3. Office

Encl: Principal's annual report - 2019



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## MBITS DAY (5<sup>th</sup> November, 2019)

### Decennial Celebrations

Chief Guest: Mr. Anil Kumar, RDO, Muvattupuzha.

### Principal's Annual Report

Good Morning to All,

Mar Basil Group of Institutions is in existence since 1936 and our engineering college, Mar Baselios Institute of Technology and Science (MBITS) was established by the visionaries of Mar Thoma Cheria Palli Management in 2009 and thus on today, we celebrate our 10<sup>th</sup> anniversary with great pleasure.

We are conducting B.Tech Programmes in five branches, Civil, Mechanical, Electrical and Electronics, Electronics and Communication and Computer Science and Engineering. We are also having M.Tech programs in Civil and Mechanical engineering. Additionally, our faculty is giving guidance for Ph.D aspirants.

#### Major highlights of the results:

First batch of APJ Abdul Kalam Technological University students have passed out in 2019 and their S8 results are outstanding, in comparison with their average entrance admission ranks.

- Overall pass : 84.56 %
- CE – 75.9 %
- ME – 92.45 % (6<sup>th</sup> Position in Kerala among all engineering colleges)
- EEE – 86.36 %
- ECE – 78.26 %
- CSE – 84.31 %

It is a delight to inform you that there are 30 students of 2019 passout batch with CGPA 8 and above.

(CE-12, ME-5, EEE-4, ECE-3, CSE-6, Total: 30)

We are glad to mention that we have overall 17<sup>th</sup> position in Kerala, among more than 140 engineering colleges and we are first in our region, including nearby aided engineering college and self financing colleges. Hearty congratulations to

  
PRINCIPAL

Dr. P. SOJAN LAL





the students, parents and staff members for their endless contributions to have this distinct honour.

We are extremely happy to record that **Joanna Biju**, S3 B.Tech (EEE) has secured **SGPA 10 out of 10** in her second semester B.Tech University examination. Hearty congratulations to Ms.Joanna Biju, her staff and parents.

- 100 % pass for 2019 pass-out M Tech (Civil Engineering)
- 100 % pass and placement for ladies hostel inmates of 2019 batch.
- We have 100 % results for more than 65 theory subjects in the recent year university exams. Details have been published in the news letter.
- S2 EC with 100 % for 3 subjects and another 2 subjects with above 90 % results.
- S4 EC with 100 % for 4 subjects, and S6EC with all subjects above 90 % results in the university exams.
- S6 EEE, 100 % marks for 5 theory subjects, with 94.12 % results.
- S8 EEE, above 90 % results for 3 subjects, with 86.36 % results.

We are proud to announce the names of 15 students with SGPA 9 & above during 2018-19 period:

1. S3, CE, 2018-2022, Jyothika Sasi, Gracein, Hima Mary Saju
2. S5, CE, 2017-2021, Athulya Vijayan, Anu Poly,
3. S7, CE, 2016-2020, Jincy Jacob, Remya Toney K.
4. S3, EEE, 2018-2022, Joanna Biju, Anjana Biju, Devaky Jayan and Mima Sara Mathews.
5. S3, ECE, 2018-2022, Sijina C.J., Stellamol Sabu, Aiswarya Lakshmi M
6. S5, CSE, 2017-2021, Leji Ann Biju

Congratulations to the students, parents, teachers, all HODs, Dean(Academic) and Tutors for having this remarkable results.

#### Placement:

We are extremely glad to inform that, we have 97 % placement for the 2019 pass-out B.Tech batch. Many renowned companies had their campus placements, like Infosys, TCS, Wipro, IBS, CTS, HGS, 6D Technologies, Procsys, Byjus, Omnex,





Mindtree, Aarbee structures, Virtusa Technologies etc. 277 students have received job offers. Many students got 2 to 5 job offers from leading companies too. Congratulations to all students, staff and parents.

Department wise placement records are:

- CE – 92.5 %
- ME – 97.5 %
- EEE – 100 %
- ECE – 100 %
- CSE – 100 %

We have scheduled 90 hours training sessions during 2019-20, for each student from second year to final year existing students, to make them more competent for the interview process.

Dedicated efforts of Mr.Jenty Joy, Training & Placement officer and his team are well appreciated.

#### **NAAC Accreditation: (National Assessment and Accreditation Council)**

We have submitted application for NAAC accreditation on 23<sup>rd</sup> August, 2019. It will be a distinct privilege for all of us, once MBITS gets NAAC accreditation. Prof.Leena Thomas is leading the team, with immense support from joint coordinator Mrs. Susanna M. Santhosh and all other staff members. Guidance and devotion of Management is admirable. We are waiting for the peer team visit shortly.

#### **Scholarships:**

- Management provided financial aid of Rs 1 Crore 66.43 Lakhs and 680 students received the aid during the year (First year :172, Second year:191, third year :125 and final year: 192 students benefitted).
- External Scholarships : Rs 27.05 Lakhs, for 131 students.
  - Merit Cum Means (MCM) - Fresh - 67 students, Rs 13.21 Lakhs
  - Merit Cum Means (MCM) - Renewal - 61 students, Rs 13.54 Lakhs
  - Central Sector Scholarship (CSS) - Fresh - 2 students, Rs 20,000/-
  - Central Sector Scholarship (CSS) - Renewal - 1 student, Rs 10,000/-









- o Additionally, Kshemanidhi's scholarships from various employees' welfare associations have been received.

**Publications and Research work.**

We have noticed that faculty members pursuing Ph.D are increasing and the following 9 faculties are progressing with their research work.

- CE (3) – Mr Jobil Varghese, Mrs.Veena Jayakrishnan, Ms.Hema M.
- ME (1) – Mr Anoop Sankar
- EEE (4) – Mr. Arun Eldho Alias, Mr.Shiju Ramachandran, Mr.Thomas George and Mrs.Rini Varghese.
- ECE (1) – Mr. Robin George

Best wishes and prayers for their successful completion.

Publications	Last One Year	Last 5 Years
Journal	40	182
Conferences	42	150
<b>Total</b>	<b>82</b>	<b>332</b>

We are indeed extremely happy to note the contributions in research paper publications and encourage students and staff members to continue the momentum, with a publication from each one of you. 5 technical books were also published by faculty during the last 5 years. Most prominent Indian book is Python programming.

**Ph.D Guidance:**

The following 4 external scholars have obtained their Ph.D under the guidance of Dr. P. Sojan Lal, Professor, Department of Computer Science and Engineering and another 2 scholars are pursuing their research.

**University of Petroleum and Energy Studies, Dehradun, Uttarakhand**

1. Dr.Akula Ramakrishnan, Health, Safety & Environment Dept. (2014).  
**Mahatma Gandhi University, School of Computer Science, Kottayam, Kerala.**
2. Dr.Sajimon Abraham, Mahatma Gandhi University, Kottayam, (2014-15).
3. Dr.Jeeva Jose, BPC College, Piravom (2015-16).
4. Dr. Geevar C Zakaria, MES College of Engineering, Kuttipuram (2018-19).





Our MBITS faculty can guide research scholars in Computer Science and Engineering, and inter-disciplinary engineering departments, various Science and Management area too.

**IIC – (Institute Innovation Council)** has been recently formed on 11th September, 2019 as per MHRD, Government of India, Innovation cell norms - All the students of MBITS have submitted innovative ideas and congratulations to all students, faculty mentors, Co-ordinators, Dean (Planning & Development) and team IIC. Celebrated innovation day, jointly with ISRO, on 15th October, 2019 in memory of the birthday of Late Dr.APJ Abdul Kalam.

**Innovation and entrepreneurship development centre (IEDC).** Various programs were conducted independently and jointly with ICT Academy Kerala, IHRD Model Finishing school, and Kerala Start-up Mission. Mr.Mahesh KM, Asst Professor (CSE) is co-ordinating the cell activities admirably.

### MoUs

We are glad to announce that MBITS have entered into MoUs with many major industries in the country and abroad. Civil Engineering department has contributed with highest number of MoUs and their commitment is commendable.

Recent MoUs with M/S TELK Angamali, Kerala; NIT Warangal, Telungana and DRJ Telecom, USA are the prominent MoUs. We have more than 25 MoUs.

Additionally, Prof. Larry Milstein, University of California, San Diego, USA (QS Ranked Institute), Prof.S.T. Koay, Texas A & M University, USA, and Prof.D.R. Vaman, Senior Executive Director, DRJ Telecom, USA have agreed to jointly work with MBITS for the project proposal, "Efficient and Secured Mobility Mining for cloud Infrastructure". This project, if approved by MHRD, will be carried out jointly with Dr.Sajimon Abraham, Mahatma Gandhi University, Kerala and Prof.P.Sojan Lal, MBITS as its Indian collaborators.

Students and faculties can utilise opportunity to do internship, projects and research work in Industries, NIT Warangal or some of the foreign universes in USA, through the recent collaborations.

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- MBITS is the nodal centre for many online exams, PMKVY, ASAP, UBA, and DDU-GKY. 4 batches of DDU-GKY, two batches of PMKVY, and one batch of ASAP have completed various short-term courses. We have received Rs **12.79 Lakhs**, excluding online exams. Additional payments for the short-term courses are being processed. Immense support from management and various staff members for successful coordination and implementation are acknowledged with gratitude.
- CSE department got a video conferencing lab worth Rs 17,50,000 under SDPK project. MBITS was one of the 20 Engineering colleges in Kerala, for this project in its first phase.

### **Smart India Hackathon (SIH) – Hardware Edition - 2019**

Team lead by Mr.Ganesh Sreedhar is the winner in the Smart India Hackathon – Hardware Edition -2019 in Bangalore, along with 5 other team members. Congratulations to the entire team. MBITS have successful experiences in this domain from the inception of SIH by MHRD since 2017.

More than 2 lakh students from 2000 institutes in the country have submitted solutions to the problem statements and we are fortunate, by the grace of God, to have the honour of getting first prize and Rs 1,00,000/- cash award. The mentors of the team were Mr.Robin George, Asst. Professor (ECE) and Dr.P. Sojan Lal, Professor, CSE Department.

- International seminar on Patent and Intellectual property rights was conducted by ECE department. Dr.D.R.Vaman gave the keynote address, followed by sessions by Dr.Gifty Oommen, Dr.Anish Pillai, and Dr.Jeeva Jose.
- National conference on Innovative Practices in Civil Engineering was conducted in May 2019, jointly organised by NIT Warangal, Telengana. 44 selected papers from various colleges were published in International Journal for research and analytical reviews. Dr.S.Somanath, Director, VSSC, ISRO, Thiruvananthapuram gave the keynote address. During his visit, Dr.Somanath reviewed many student projects, appreciated their efforts and gave further guidance for same projects.

  




### College Union - 2018-19

The following students were leading the college Union during 2018-19.

- Chairman : Mr.Akhil Biju, S5 MA
- Arts Club Secretary : Mr.Afsal Ibrahim, S5 EEE
- Vice Chairperson : Ms.Greeshma P. Suresh, S5 EEE
- General Secretary : Mr.Cyril M.Rudy, S5 CSE
- Sports Club Secretary : Mr.Allen Babu, S5 CA

### College Union - 2019-2020

The college union members were unanimously selected and the following students are leading the team during 2019-20.

- Chairman : Mr.Vasudevan Prathapan, S5 MB
- Vice Chairperson : Ms.Devapriya Vinod, S5 ECE
- Arts Club Secretary : Ms.Riya Eldhose, S5 CA
- General Secretary : Mr.Abin K P, S5 CSE
- Sports Club Secretary : Mr.Amal Martin, S5 EEE

**Arts Festival, RHYTHM-2019**, was conducted from 4th to 6th April, 2019. During the program Ms.Saniya Iyyappan, Mr.Govind Padmasooriya (GP) and Ms.Noorin Shefief visited our campus. Vibrant programs were concurrently conducted on 4 stages and appreciate the efforts taken by students and staff members.

- Kala Thilakam (കലാതിലകം) - Ms.Aryamol Venu
- Kala Prathiba (കലാപ്രതിഭ) - Mr.Ajaydev N. Venu

Noted the commendable work of Mr.Eldho Lomy, union in charge and Mr.Arun Eldho Alias, staff in charge for the arts festival.

### Sports

We had several sports events and the final was on 28th September, 2019.

- Ms.Abita S, S1 Civil, B Tech, secured first position in both 100 M, and 200 M, women's race in Junior athletic meet, Idukki District.
- Alfin Antony, S7 CSE got selected to University (KTU) football team.









### **Thandav - 2019: An Inter-collegiate dance festival.**

One of the most vibrant programmes regularly conducting in our MBITS campus and winners are given below. Mr. Bibin K Tharian, Asst. Prof. And his team organised the program very well.

- First - Government Engineering college, Trichur
- Second - Amal Jyothi College of Engineering, Kanjirapally
- Third - Nangelil Ayurveda Medical College, Kothamangalam.

**Holi and Onam**, were celebrated in the campus and glad to note that strict discipline was maintained during the entire program, without compromising the enjoyments. Our appreciation for the students and staff for proper planning and well behaved execution.

### **Talk by eminent professionals on various topics during 2018-19 and listed few of them:**

- Adv.N.C.Mohan, Chairman, TELK, Angamaly - He transformed the public sector into a profitable organisation, from the first year of his office and sustaining. Sir, we admire your leadership talent and generous attitude for all.
- Senior Advocate Mrs.V.P. Seemandini, Director, International Federation of Women Lawyers.
- Dr.D.R.Vaman, Senior Executive Director, DRJ Telecom, USA, who's having pioneer patent. His technical guidance helped in winning smart India Hackathon-2019.
- Dr.S.Somanath, Director, VSSC, ISRO, Trivandrum - Inspired young minds and explained that boundaries of various engineering departments are usually overlapping.
- Dr.Christy Fernandez, IAS (Rtd), Chairman, KSIDC, Trivandrum, was the Chief Guest for B.Tech students induction program.
- Mr.Jijimon KM, DySP, District Crime Branch, Ernakulam Rural, conducted anti ragging awareness session and gave message to NSS volunteers.
- Mr.Reji P., RTO, Muvattupuzha. - Road safety.
- Mr.Hari N., Senior Scientist, NPOL, DRDO, Cochin - Farewell message to outgoing students of 2019 batch.

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- Dr.K.N. Madhusoodanan, Vice Chancellor, Cochin University of Science and Technology. Keynote speaker of FDP.
- Dr.Harikumar V., NIT, Warangal, for 3 days FDP for faculties from 7 districts in Kerala - 2019.

**MBITS Alumni Association in Canada and Germany:**

Position	Canada (16 <sup>th</sup> September, 2019)	Germany (September 2019)
President	Er Cibin Jacob, 2010-14 Mech	Ms. Jeeba Jolly, 2012-16, ECE
Secretary	Er.Eldho V Issac, 2011-15 ME	Er.Abhijith K.S, 2013-17, CE
Treasurer	Er.Eldho Varghse, 2012-16, ME	Er.Jibine Mathew Jojo, 2012-16, EEE
Event Coordinator	Er.Noel Mathew, 2012-16, ME	Ms.Jeeva Varghese, 2012-16, ECE

Students who are travelling to these countries can take their help.

We noticed that large numbers of our alumni are travelling for employment to countries like, Canada, Germany, UK, Qatar, UAE, Ireland, New Zealand, and Italy.

**Mr.Ciril Mathew, 2009-13 batch of MBITS, ECE branch, is the current Secretary of MALTA Cricket Association, Ireland. Congratulations and let's be proud of his achievement.**

**Major Projects:**

- **KSRTC: "Design, testing, and implementation of pneumatic jack and wrench in breakdown van"**  
12 students of final year Mechanical, under the guidance of Er.Elson Paul, Asst Professor (ME), supported by Mr.Eldhose KA, Tradesman, and other staff, who carried out the project for Kothamangalam KSRTC. The new system has two stage reciprocating air compressor with a 16 HP four stroke diesel engine (702 CC) for operation in remote areas. It's first of its kind in Kerala KSRTC and received letter of appreciation from KSRTC, Central Zone, Executive Director.
- **KPIT Sparkle -2019:** MBITS was selected from 22,000 registrations, from 11,000 colleges and 26 states. Ours was the only team got selected from

*[Handwritten signature]*







Kerala. Zero emission, solar powered, Electric Vehicle was designed and retrofitted in Maruthi-800, under the guidance of Asst. Professor Mr.Arun Eldho Alias.

- CSE students developed website for DRJ Telecom, USA and received appreciation. Website for Dharmagiri Vikas Society, Kothamangalam is ongoing.
- Newsletter android app developed for Pothanicad Grama Panchayath.
- Some of the M.Tech Student projects carried at:
  - LPSC, ISRO – One project
  - VSSC, ISRO – 6 Projects
  - Geodesic Techniques, Bangalore – 2 Projects
  - KITCO, Cochin – 2 Projects

**Quad Torc – National level Competition.**

- 2019 – 4<sup>th</sup> Position in India
- 2018 – 7<sup>th</sup> Position in India
- 2015 – 6<sup>th</sup> Position India.

Congratulations to Er.Abine Sunny, Asst Professor (ME) and students.

- Mr.Kiran Chandran, Final year Civil, has secured first position in the residential plan preparation, conducted by The Institution of Engineers (India), Cochin Local Chapter, on 15<sup>th</sup> October, 2019.

**NSS :** Conducted large number of socially relevant programs and listed below are few.

Anti-ragging campaign and orientation (03/09/19)

1. Suchithwa mission cleaning program at water authority & Neriamangalam (09/01, 10/01/2019)
2. Canal Cleaning & reflector fitting (18/05/2019)
3. E-Waste collection (11/05/2019)
4. Green Protocol Participation at Cheria Palli ( 3 days from 27th March, 2019)
5. Green Protocol Participation at Kanjoor Church (20/01/2019)
6. Two Blood Donation Camps (14/03/2019 & 30/09/2019)
7. Orientation of NSS for B.Tech first year students (6/08/2019 & 24/08/2019)
8. Campus Cleaning (28/08/2019)
9. Flood relief Material collection (11 to 15th August, 2019)



10. Independence day (15/08/2019)
11. Uriyampett Visit - (22/08/2019) - A tribal village in Kuttampuzha Panchayath.
12. 50th NSS Day celebrations on 24/09/2019.
13. Onam at Prathesksha Bhavan (6/09/2019)
14. Rule of law and criminal justice system (5/09/2019)

**We are really proud to acknowledge the contributions of both NSS Units.**

**Vimukthi Short Film competition - 2019**, on anti drug awareness conducted by Excise department, Government of Kerala for all college students in Kerala.

MBITS won first prize with Rs One lakh and certificate. Congratulations to Mr. Eldhose Lomy, Asst. Prof. and entire team of staff and students.

**Environmentally sustainable projects;**

- **Eco Friendly Bio-Gas plant** has been installed in our campus near the canteen in 2019.
- A **ground water recharging system** has been constructed in early 2019, near the potable water well. This acts as a supplement to our 6.5 lakhs litres capacity water harvesting tank.

**Department Associations:** All the department associations have conducted various significant events and encourages to continue. Thank you HODs and faculty for conducting so many activities.

**Boys and Girls Hostels :** We are extremely glad to note that both boys and girls campus hostels are functioning well, with full capacity.

**FILAFIRE-2019:** MBITS jointly with YMCA, Pothonicad and Lions club international, Kothamangalam (Town) conducted **Filafire** on 29th January 2019, a cultural festival for the differently abled students of this region, including special schools from Idukki district. Asst.Prof. Vijayaraj, Asst.Prof. Chethan Roy and the team did a commendable job.

Thank you Mr. Shiju Ramachandran, Asst. Prof. for organising public relation activities.

Acknowledging contributions of Chief Warden Prof. Leena Thomas (LH), Mr. Thomas George (MH) and their entire team for administration of campus hostels







Thank you, Admission cell, Canteen committee, IEI Chapter, Digital Cell, Anti-ragging teams, discipline committees, various sub-committees, staff-in-charges of labs, add-on courses, Tutors, time table committee, Training and Placement team, for your wonderful contributions.

Thank you, Management - Mr. Binu Kaippillil (Secretary), Mr. Binu Athithottathil (Chairman), Mr. Roy Paul Pazhukkalil (Treasurer) and entire Board members, Trustees - Mr. Binoy M Thomas and Adv. C I Baby, HODs – Dr. Roy N Mathews (ME), Prof. Shiney Varghese (CE), Prof. Johny Joseph (ECE), Prof Aleyas M.V (EEE), Asst. Prof. Midhun Mathew (CSE) and Asst. Prof. Siju Jacob (S&H), DEANs – Prof. Leena Thomas & Dr. Solly George, Chief Administrator – Mr. Mathew Varghese, Mr. Eldhose Varghese (System Administrator) and their teams, teaching and non-teaching staff, students, parents and all well wishers, for your immense contributions to MBITS.

Wishing you all a Happy life and a grand success in your career.



Dr P. Sojan Lal

Principal