



ANNA UNIVERSITY
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T.CAMPUS :: CHENNAI - 600 044

Dr.J.PRAKASH
PROFESSOR & HEAD

15.07.2015

Sub: Department of Instrumentation Engineering, MIT Campus - Conduct
of DCC Meeting – Reg.

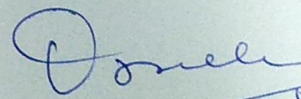
The First DCC Meeting for the academic year 2015-2016 is to be held as per the
following schedule:

Date: 20.07.2015 (Monday)
Time: 11.30 A.M
Venue: K.V.N. Seminar Hall, Dept. of I.E.

Agenda Points:

1. Additional Building for Instrumentation Engineering Department
2. N.B.A.
3. DST – FIST / DST-PURSE
4. UGC – SAP – DRS
5. TIMA – 2015
6. Research Scholars Day 2015
7. Endowment Lectures
8. Minor Civil / Electrical Works
9. Any other matter

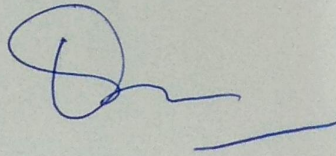
I request you to kindly make it convenient to attend the meeting.


15/7/15
PROFESSOR & HEAD

HEAD OF THE DEPARTMENT
DEPT.of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044.

DCC Members:

| Sl.No. | Member | Designation | Signature |
|--------|-----------------------|-------------------------|-------------------|
| 1. | Dr.K.,Bhoopathy Bagan | Professor, ECE | CKB 15/7/15 |
| 2. | Dr.P.Anandha Kumar | Professor & Head, CT | B.S.K. |
| 3. | Dr.T.Thyagarajan | Professor, IE | T.T. |
| 4. | Dr.J.Prakash | Prof. & Head.IE | J.Prakash 15/7/15 |
| 5. | Dr.V.Natarajan | Professor, IE | V.N. |
| 6. | Dr.N.Pappa | Associate Professor, IE | N.Pappa 15/7/15 |
| 7. | Dr.D.Manamalli | Associate Professor, IE | D.Manamalli |
| 8. | Dr.S.Srinivasan | Associate Professor, IE | S.Srinivasan |
| 9. | Dr.D.Vasanthi | Associate Professor, IE | D.Vasanthi |





ANNA UNIVERSITY
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T.CAMPUS:: CHENNAI - 600 044

Dr.J. PRAKASH
PROFESSOR & HEAD

Date: 19.09.2015

Circular

The Second DCC Meeting for the academic year 2015-16 is to be held as per the following schedule:

Date: 22.09.2015(Tuesday)

Time: 2.45 P.M

Venue: Prof. K.V.N. Seminar Hall, Dept. of. I.E, MIT Campus.

Agenda Points:

1. To recommend to the Board of Studies for the approval of detailed contents of various subjects (Theory/Practical/Electives) to be offered under R-2015 (CBCS) for B.E.(E&I).
2. Any other matter.

PROFESSOR AND HEAD

HEAD OF THE DEPARTMENT
DEPT.of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROME PET, CHENNAI-600 044.

DCC Members:

| Sl.No | Member | Designation | Signature |
|-------|----------------------------|------------------------|--------------|
| 1. | Dr.B.Uma Maheswari | Professor, EEE | |
| 2. | Dr.P.Lakshmi | Professor, EEE | P. Lakshmi |
| 3. | Dr.G.Geetha | Asso.Prof, ECE | G. Geetha |
| 4. | Dr.J.Prakash | Professor and Head, IE | |
| 5. | Dr.T.Thyagarajan | Professor, IE | |
| 6. | Dr.V.Natarajan | Professor,IE | V. Natarajan |
| 7. | Dr.N.Pappa | Asso.Prof,IE | |
| 8. | Dr.D.Manamalli | Asso.Prof,IE | D. Manamalli |
| 9. | Dr.S.Kumar | Asso.Prof,IE | S. Kumar |
| 10. | Dr.K.Latha | Asso.Prof,IE | K. Latha |
| 11. | Dr.Sabitha Ramakrishnan | Asst.Prof,IE | S. Sabitha |

DCC Members:

22.09.2015

Attendance for the meeting

| Sl.No | Member | Designation | Signature |
|-------|-------------------------|------------------------|--------------------|
| 1. | Dr.B.Uma Maheswari | Professor, EEE | |
| 2. | Dr.P.Lakshmi | Professor, EEE | P. Lakshmi 22/9/15 |
| 3. | Dr.G.Geetha | Asso.Prof, ECE | G. Geetha |
| 4. | Dr.J.Prakash | Professor and Head, IE | J. Prakash |
| 5. | Dr.T.Thyagarajan | Professor. IE | |
| 6. | Dr.V.Natarajan | Professor,IE | V. Natarajan |
| 7. | Dr.N.Pappa | Asso.Prof,IE | |
| 8. | Dr.D.Manamalli | Asso.Prof,IE | D. Manamalli |
| 9. | Dr.S.Kumar | Asso.Prof,IE | S. Kumar |
| 10. | Dr.K.Latha | Asso.Prof,IE | K. Latha |
| 11. | Dr.Sabitha Ramakrishnan | Asst.Prof,IE | S. Sabitha |

Special Invited.

12. M. Mythily

Asst. Prof. IE

13. Dr. S. Sutha

Asst. Prof. IE

M. Mythily
S. Sutha



DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T., ANNA UNIVERSITY, CHROMEPET, CHENNAI 600 044

Date: 23.09.2015

Minutes of the DCC Meeting held at the Department of Instrumentation Engineering, MIT
Campus, Anna University on 22nd September, 2015 at 2.45 P.M.

The members of the Departmental Consultative Committee of the Department of Instrumentation Engineering, MIT Campus, Anna University met on 22nd September, 2015 at 2.45 P.M in the KVN Seminar Hall, Dept. of IE, MIT campus, for reviewing the CBCS curriculum and syllabi of B.E (E&I) programme, proposed for Regulations 2015. The following members were present:

DCC Members:

- | | |
|-----------------------------|--|
| 1. Dr. J. Prakash | Professor & Head – IE, MIT |
| 2. Dr. V. Natarajan | Professor – IE, MIT |
| 3. Dr. P. Lakshmi | Professor – EEE, CEG Campus, AU |
| 4. Dr. G. Geetha | Assoc. Professor – ECE, CEG Campus, AU |
| 5. Dr. D. Manamalli | Assoc. Professor & Coordinator – R2015(UG) |
| 6. Dr. K. Latha | Assoc. Professor – IE, MIT |
| 7. Dr. S. Kumar | Assoc. Professor – IE, MIT |
| 8. Dr. Sabitha Ramakrishnan | Asst. Professor (S.G) – IE, MIT |

Invited Members:

- | | |
|--------------------|----------------------------|
| 1. Dr. D. Vasanthi | Assoc. Professor – IE, MIT |
| 2. Dr. S. Sutha | Asst. Professor – IE, MIT |
| 3. Mrs. M. Mythily | Asst. Professor – IE, MIT |

Dr. J.Prakash presented the proposed R-2015 CBCS curriculum and syllabi for B.E (E&I) along with the modifications and corrections suggested during the syllabus subcommittee meeting held on 26.8.2015. He explained the weightage given to the courses under various domains of the curriculum in terms of percentage of subjects:

| Sl. No. | Domain | Core (%) | Elective (%) |
|---------|-----------------------------------|-------------|--------------|
| 1 | Process control and Automation | 17 | 30 |
| 2 | Measurement domain | 15 | 22 |
| 3 | Electrical and Electronics domain | 23 | 33 |
| 4 | Computer and Communication | 11 | 15 |
| 5 | HS / BS / ES | 28 | - |
| 6 | Project and Management | 6 | - |
| | Total | 100% | 100% |

HEAD OF THE DEPARTMENT
DEPT.of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044.

The DCC members gave the following suggestions:

1. For the following core courses, the L T P C allocation may be modified as 4 0 0 4 instead of the currently proposed 3 2 0 4.

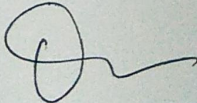
- (i) Engineering Graphics
- (ii) Electronics for Analog Signal Processing I
- (iii) Instrument Transducers
- (iv) Electronics for Analog Signal Processing II
- (v) Control systems
- (vi) Discrete Time Signal Processing
- (vii) Process Control
- (viii) Computer Control of Processes

Based on the modified L T P C allocation, the above courses will have 4 contact hours per week. This modification is suggested in view of the difficulty in slot allocation in the timetable under CBCS. It may be noted that Mathematics courses have been given similar L T P C weightage as 4 0 0 4.

2. The topics covered under the course "Applied Soft Computing" are at PG level and hence may be reduced / modified to suit the level of UG students.

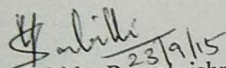
3. Suggestions for syllabi contents:

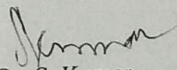
| Sl. No. | Name of the subject | Suggestions |
|---------|---|---|
| 1 | Industrial Data Communication | <ul style="list-style-type: none"> • In Unit 5, Change "IEEE 802.11" as "IEEE 802.15.4" |
| 2 | Biomedical Instrumentation | <ul style="list-style-type: none"> • Remove detailed subtopics from all units and give only main topics |
| 3 | Electronics for Analog Signal Processing I | <ul style="list-style-type: none"> • In Unit 1, Remove the topics Drift current, diffusion current, diode switching characteristics • In Unit 2, Remove transistor construction and Bias stability • In Unit 4, add "<u>cascode</u> and <u>bootstrap</u> amplifiers" • Add the topic "<u>filters</u>" in one of the units |
| 4 | Electronics for Analog Signal Processing II | <ul style="list-style-type: none"> • Remove detailed subtopics from Unit 1. • Add a comma after FM generation in Unit 3 • Remove the name "IC" from topics under Unit 5, as the unit title itself is Special function ICs • In Unit 5, modify the words as "Audio and Video <u>Power Amplifiers</u>" |
| 5 | Control Systems | <ul style="list-style-type: none"> • In Unit 5, modify: "Introduction to nonlinear <u>Control</u> systems" |

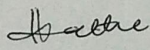

 HEAD OF THE DEPARTMENT
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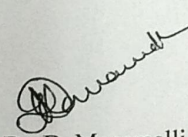
| | | |
|---|--|---|
| | Applied Soft Computing | <ul style="list-style-type: none"> In Unit 1, remove all the topics after RNN. Cover the subtopics under BPA in depth In Unit 2 and 3 also, reduce the number of topics In Unit 5, remove optimization topics (GA and PSO). Give the last topic as Introduction to Support Vector Machines |
| 7 | Electronics for Analog Signal Processing Lab | <ul style="list-style-type: none"> In Exp. 3, remove "CB configuration" In Exp. 4, add "JFET in CS configuration" In Exp. 9, remove "for given specifications" |
| 8 | Microprocessor and interfacing lab | <ul style="list-style-type: none"> In hardware experiments, Modify: "Hardware based experiments using 8085 / 8086 / ..." In Exp 2, Modify: "Data transfer using serial communication interface" In Exp 4 Check the title "I2C based ..." In Exp 5, Modify: "Keyboard interfacing with PC" |

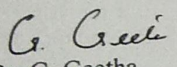
The DCC members resolved to recommend to the Board of Studies, the detailed Syllabi of all the courses to be offered from 3rd to 8th Semesters under R-2015 for B.E (E&I) as given in Annexure I.

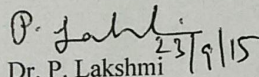

 Dr. Sabitha Ramakrishnan
 Asst. prof, IE
 23/9/15

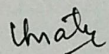

 Dr. S. Kumar
 Assoc. Prof, IE

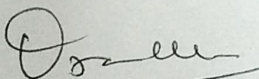

 Dr. K. Latha
 Assoc. Prof, IE


 Dr. D. Manamalli
 Assoc. Prof, IE


 Dr. G. Geetha
 Assoc. Prof, ECE


 Dr. P. Lakshmi
 Professor, EEE
 23/9/15


 Dr. V. Natarajan
 Professor, IE


 Dr. J. Prakash
 Professor, IE
 23/9/15



ANNA UNIVERSITY
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T.CAMPUS :: CHENNAI - 600 044

Dr.J. PRAKASH
PROFESSOR & HEAD

Date: 28.03.2016

Circular

The Third DCC Meeting for the academic year 2015-16 is to be held as per the following schedule:

Date: 30.03.2016

Time: 11.00 A.M

Venue: Prof. K.V.N. Seminar Hall, Dept. of. I.E., MIT Campus.

Agenda Points:

1. UGC – SAP - DRS (Funding Support)
2. Conduct of Dr. S. Renganathan & Dr. P. Kanagasabapathy Endowment Lectures.
3. Conduct of Training programme for M/s CTS.
4. Proposal approved under GIAN Scheme.
5. Conduct of International Conference (TIMA – 2017).
6. Conduct of National Conference (RTIC – 2016).
7. Purchase of Process Control Stations, Laboratory Furniture, Seminar Hall Furniture, Computer Tables, Projectors, UPS, Computers (i7 Processors) utilizing the Infrastructure grant.
8. Purchase of Equipment utilizing DST-FIST grant.
9. Any Other matter

PROFESSOR AND HEAD

HEAD OF THE DEPARTMENT
DEPT. of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044.

DCC Members:

30.03.2016

Attendance for the meeting

| Sl.No | Member | Designation | Signature |
|-------|-------------------------|------------------------|---------------------------|
| 1. | Dr.B.Uma Maheswari | Professor, EEE | |
| 2. | Dr.P.Lakshmi | Professor, EEE | |
| 3. | Dr.G.Geetha | Asso.Prof, ECE | G. Geetha |
| 4. | Dr.J.Prakash | Professor and Head, IE | J. Prakash |
| 5. | Dr.T.Thyagarajan | Professor, IE | T. Thyagarajan 29/3/16 |
| 6. | Dr.V.Natarajan | Professor, IE | V. Natarajan |
| 7. | Dr.N.Pappa | Asso.Prof, IE | N. Pappa |
| 8. | Dr.D.Manamalli | Asso.Prof, IE | D. Manamalli |
| 9. | Dr.S.Kumar | Asso.Prof, IE | S. Kumar |
| 10. | Dr.K.Latha | Asso.Prof, IE | K. Latha |
| 11. | Dr.Sabitha Ramakrishnan | Asst.Prof, IE | S. Sabitha |



DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T., ANNA UNIVERSITY, CHROMEPET, CHENNAI 600 044

Date: 30.03.2016

**Minutes of the Third DCC Meeting held at the Department of Instrumentation Engineering,
MIT Campus, Anna University on 30th March, 2016 at 11.00 A.M.**

The Third Departmental Consultative Committee Meeting for the academic year 2015-16 met on 30th March, 2016 at 11.00 A.M in the KVN Seminar Hall, Dept. of IE, MIT campus for discussing the various academic and administrative aspects pertaining to the Department of Instrumentation Engineering, MIT Campus, Anna University. The following members were present:

- | | |
|-----------------------------|--|
| 1. Dr. J. Prakash | Professor & Head – IE, MIT |
| 2. Dr. T. Thyagarajan | Professor – IE, MIT |
| 3. Dr. V. Natarajan | Professor – IE, MIT |
| 4. Dr. G. Geetha | Assoc. Professor – ECE, CEG Campus, AU |
| 5. Dr. N. Pappa | Assoc. Professor – IE, MIT |
| 6. Dr. D. Manamalli | Assoc. Professor & Coordinator – R2015(UG) |
| 7. Dr. K. Latha | Assoc. Professor – IE, MIT |
| 8. Dr. S. Kumar | Assoc. Professor – IE, MIT |
| 9. Dr. Sabitha Ramakrishnan | Asst. Professor (S.G) – IE, MIT |

Agenda:

1. Funded Projects
2. Dr. S. Renganathan and Dr. P. Kanagasabapathy Endowment lectures
3. Training programmes conducted
4. Proposal approved under GIAN scheme
5. International Conference TIMA 2017
6. National Conference RTIC 2016
7. Purchase of equipment utilizing various grants
8. Any other matter

1. Funded Projects

(i) UGC- SAP-DRS Funding support

Dr. J. Prakash mentioned that official communication has been received from UGC regarding UGC-SAP-DRS funding support for the Department of Instrumentation Engineering under the thrust area "Intelligent Instrumentation and Advanced Process Control" with Dr. S. Srinivasan as Coordinator and Dr. S. Kumar as Deputy Coordinator. The project period is 5 years and the amount sanctioned is Rs. 99 Lakh (Rs. 90 Lakh for non-recurring and Rs. 9 Lakh for recurring expenditure) + 1 project fellow for the project period (with financial support as per actuals).

(ii) DST Funded Research Project

Dr. J. Prakash mentioned that a DST funded Research Project entitled "Design and Development of Automated External Defibrillator" has been sanctioned in November 2015 with a funding support to the tune of Rs. 31.66 Lakh from DST. The first installment of Rs. 20 lakh has been released in

November 2015. The project period is 2 years. Dr. T. Thyagarajan is the Principal Investigator and Dr. Sabitha Ramakrishnan is the Co-Investigator of the project.

(iii)UGC – MRP

Dr. J. Prakash mentioned that the project entitled “Drift Analysis and compensation techniques for frequently used industrial temperature sensors” has been selected under UGC – MRP funding scheme. The funding support is Rs. 15,42,500/- and the project period is 2 years. The sanction proceedings are awaited.

2. Dr. S. Renganathan and Dr. P. Kanagasabapathy Endowment lectures

Dr. Prakash informed that 5 eminent Professors from globally renowned universities were invited for delivering Dr. S. Renganathan and Dr. P.Kanagasabapathy endowment lectures, as detailed below:

| Sl.No. | Date | Name of the Speaker & Affiliation | Topic Covered |
|---|------------|--|---|
| Dr. P. Kanagasabapathy, Endowment Lectures | | | |
| 1. | 04.02.2016 | Dr.Anuratha Annaswamy, Director, Active Adaptive Control Laboratory & Senior Research Scientist, Department of Mechanical Engineering, Massachusetts Institute of Technology, (MIT) USA., | Practical Adaptive Control |
| 2. | 04.02.2016 | Dr. Liuping Wang, Professor in Control Theory and its Applications, Department of Electrical & Computer Engineering, Royal Melbourne Institute of Technology, Australia. | Repetitive Control, Design Implementation and Application |
| 3. | 05.02.2016 | Dr. Visakan Kadirkamanathan, Director, Rolls-Royce University Technology Centre in Control and Monitoring Systems Engineering, Department of Automatic Control and System Engineering, University of Sheffield, Sheffield, UK. | Modeling Control and Monitoring for Smarter Planet |
| Dr. S. Renganathan, Endowment Lectures | | | |
| 1. | 10.02.2016 | Dr.P.K.Menon, Chief Scientist and CEO, Optimal Scientists Inc., California, USA. | Dynamic and Control Technologies in Air Traffic Management |
| 2. | 10.02.2016 | Dr.Kamesh Subbarao, Associate Professor, Department of Mechanical & Aerospace Engineering, University of Texas at Arlington, Arlington, USA. | Estimation Challenges in space debris (unresolved space objects) localization and Characterization |

From the endowment fund, four scholarships of Rs. 3000 each were given to 2 UG and 2 PG students of the department. The beneficiaries of the scholarship are as follows:

| Name of Scholarship | Details | Roll No. | Name, Degree & year |
|---------------------------------|--|------------|----------------------------------|
| Dr. S. Renganathan Endowment | Scholarship of Rs.3000/- for economically poor but meritorious UG / PG students (one student from each) of the Department of Instrumentation Engineering | 2012505548 | A. Parthiban, UG Final Year |
| | | 2015609039 | P. Sanjeeth kumar, PG First Year |
| Dr. P.Kanagasabapathy Endowment | Scholarship of Rs.3000/- for economically poor but meritorious UG / PG students (one student from each) of the Department of Instrumentation Engineering | 2012505554 | M. Sakthioli UG Final Year |
| | | 2015609041 | S. Silambarasan, PG First Year |

3. Training programmes conducted

(a) Conduct of Training & Certification Programme for M/s. CTS

Dr. J. Prakash informed that the department of IE, in collaboration with CUIC-AU, organized a 6-days training programme on "Instrumentation and Process Control" for Engineers of M/s. CTS with funding from M/s. CTS. The training programme was divided into 5 modules which were handled by the faculty members of IE department as detailed below:

| Module | Date | Module | Session i/c |
|--------|------------------------------|-----------------------------|---|
| 1 | 15.2.2016 FN 16.2.2016 FN | Measurements | Dr.S.Srinivasan, Dr.S.Sutha, Dr.M.Mythily Dr.K.Kamalanand |
| 2 | 16.2.2016 AN 17.2.2016 FN | Process Control | Dr.J.Prakash, Dr.N.Pappa, Dr.D.Manamalli, Dr.D.Vasanthi, Dr.M.Elenchezhian Mr.V.Govindan |
| 3 | 17.2.2016 AN 18.2.2016 FN | Programmable Logic Control | Dr.K.Latha, Dr.M.Mythily, Mrs.D.Kalpna, Dr.M.Elenchezhian Mr.K.Selvakumar |
| 4 | 18.2.2016 AN 19.2.2016 FN | Distributed Control Systems | Dr.J.Prakash, Dr.M.Elenchezhian |
| 5 | 19.2.2016 AN 20.2.2016 FN | Drives & Control | Dr. S. Kumar |
| 6 | 20.2.2016 AN | Evaluation & Feedback | Dr. J. Prakash |

Special lectures were arranged by the following experts during the programme:

- Dr. P. Kanagasabapathy, Professor (Retd.), MIT
- Dr. S. Vijayaraghavan, Industrial Automation Consultant
- Dr. R. Pugazhendhi, Exec. Engineer, Control & Instrumentation Division, NCTPS
- Dr. A. Sivaraman, CEO, Vipra Engineers and Projects

As part of the programme, an industrial visit to North Chennai Thermal Power Station was also arranged.

(b) Anna University sponsored FDTP

Dr. J. Prakash informed that a Faculty Development Training Programme on "Embedded Systems" was organized by the department during December 2015 with Dr. K. Latha and Dr. Sabitha Ramakrishnan as coordinators. A total of 27 participants (22 faculty members from 16 different colleges affiliated to Anna University and 5 faculty members from various departments of Anna University) attended the programme. The resource persons were drawn from the departments of Instrumentation Engg and Electrical Engg of Anna University and also from industries, namely, M/s. Delphi Ltd, M/s. Renault Nissan India, M/s. Vi Micro Systems, M/s. IBM and M/s. CDM Smidth.

4. Proposal approved under GIAN scheme

Dr. J. Prakash informed the members that the proposal submitted under GIAN scheme has been approved with a funding support to the tune of USD 12000/-. Prof. Sirish Shah from University of Alberta will be delivering lectures on "Process Data Analytics". The exact dates of the programme would be finalized after getting the concurrence from the guest speaker.

5. International Conference TIMA 2017

Dr. J. Prakash informed the members that the 9th International Conference on Trends in Industrial Measurements and Automation (TIMA 2017) will be conducted by the Department of IE, MIT during 6-8 Jan, 2017 with Prof. T. Thyagarajan as the Convener. The co-organizers of the conference are CEERI, ISA and IEEE. The conference brochure with the first call for papers has been uploaded in the Anna University website and also publicized through post and email.

6. National Conference RTIC 2016

Dr. J. Prakash informed the members that the National Conference on Recent Trends in Instrumentation and Control (RTIC 2016) was conducted on 18th and 19th March 2016 with Dr. D. Manamalli and Dr. D. Vasanthi as the coordinators. Dr. V. Jagadeesh Kumar, Professor, IIT(M) inaugurated the conference and delivered the key note address. Plenary talks were delivered by the following experts during the conference:

| Sl. No. | Date | Description | Name, designation and affiliation of the guest speaker |
|---------|--------------|-------------------|---|
| 1 | 18.3.2016 FN | Keynote lecture 1 | Dr. V. Jagadeesh Kumar Professor of Electrical Engg, IIT(M), Chennai |
| 2 | 18.3.2016 FN | Keynote lecture 2 | Dr. Ramakrishna Pasumarthy Asst Professor of Electrical Engg, IIT(M), Chennai. |
| 3 | 18.3.2016 AN | Keynote lecture 3 | Dr. M. Chidambaram Professor of Chemical Engg, IIT(M), Chennai. |
| 4 | 18.3.2016 AN | Keynote lecture 4 | Dr. Ranganathan Srinivasan CEO, Gyandata Pvt. Ltd., Chennai. |
| 5 | 19.3.2016 AN | Keynote Lecture 5 | Dr. B.V. Mudgal Professor, CWR, Anna University, Chennai. |

14 papers were presented during the technical sessions. UG/ PG students and research scholars from the Dept. of IE and from other Engineering colleges participated in the conference.

7. Purchase of equipment:

Dr. J. Prakash informed the members regarding the amount spent for the purchase of various items utilizing the infrastructure grant during the year 2015-16 as detailed below:

| Sl.No. | Description of the item | Qty | Sanctioned Amount | Spent |
|--------|--|-------|-------------------|--------------|
| 1 | Pressure Process control station, Level/Flow Process Control Station and Temperature Process Control Station | 3 | 25,50,000/- | * 21,825/- |
| 2 | Office Furniture | - | 4,65,000/- | * 3,49,764/- |
| 3 | Programmable Logic Controller and Accessories | 1 No. | 2,06,050/- | 2,06,050/- |
| 4 | Office Equipment | - | 8,00,000/- | 6,93,123/- |
| 5 | Computer tables | 15 | | 4,27,658/- |
| 6 | Work tables for Industrial Instrumentation Laboratory | 16 | 9,11,000/- | 4,80,900/- |
| 7 | Computers | 60 | 31,60,000/- | 30,17,760/- |

* Purchase Order has been issued. Supply of items is awaited.

8. Purchase of equipment utilizing DST-FIST grant

Dr. J. Prakash informed the members regarding the amount spent for the purchase of various items utilizing DST-FIST grant during the year 2015-16 as detailed below:

| Sl.No. | Date of purchase | Description of the item | Qty | Amount (Rs. In Lakh) |
|--------|------------------|-------------------------|-------|----------------------|
| 1 | 26.08.2015 | pH meter & Bio-reactor | 1 No. | 15,46,000/- |
| 2 | 22.03.2016 | Distillation Column | 1 No. | 50,64,430/- |

9. Any other matter:

(i) Open Elective Courses:

Dr. J. Prakash mentioned that the students should be encouraged to register for on-line courses offered by universities of international reputation. For example, Industrial Automation offered by IIT Kharagpur and Matlab programming offered by IITM would be highly beneficial to the students.

Dr. J. Prakash mentioned that there are many 1-credit courses (10 hours courses) offered by NPTEL. Dr. N. Pappa mentioned that the credits earned through on-line courses would be over and above the credits specified in the curriculum, according to the R-2012 regulations.

(ii) Shifting of practical courses from Odd to Even Semester

Dr. J. Prakash mentioned that the practical course "Electrical Machines Lab" is offered for 6 different branches of B.E in the MIT campus, namely ECE, E&I, Mech, Auto, Aero and RPT. Since the same lab facility is utilized by all these departments for the practical course, some major difficulties are faced as follows:

- It is impossible to allot individual lab sessions for all the branches every week.
- The machines in the lab cannot withstand long periods of running. Currently they are used almost continuously throughout the day and on all working days of the week.

Dr. T. Thyagarajan suggested to form a 5-member committee with Director-AC, Faculty Chairman – Electrical, Faculty Chairman – I&C, HOD-IE and Dean-MIT to resolve the implementation issues regarding the conduct of the practical course "Electrical Machines Lab" for all the 6 branches smoothly. He also suggested to explore whether the subject could be offered in the odd and even semesters for Mechanical and Electrical Streams respectively as follows:

- E&I, ECE - Even Semester
- Mech, Auto, Aero & RPT - Odd Semester

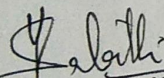
(iii) Offering pre-requisite courses in the required order

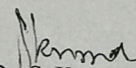
Dr. J. Prakash mentioned that as per the suggestions of Dr. V. Jagadeesh Kumar, Professor – IIT(M), certain courses offered for B.E (E&I) could be offered in an appropriate sequence so that the pre-requisite conditions would be satisfied as given below:

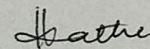
- Signals & Systems (theory)
- Control Systems (theory)
- Instrument Transducers (theory) & Sensors and Signal Conditioning Circuits (Practical)

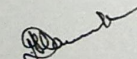
Dr. J. Prakash also suggested that the two courses "Thermodynamics" and "Pneumatics & Hydraulics" may be swapped and offered in III and IV Semesters respectively.

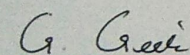
The DCC members resolved to obtain the clarifications from Director-AC for Point 9(i) and recommend to the Board of Studies, the details pertaining to Point 9(ii) and 9(iii) above.

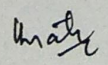

Dr. Sabitha Ramakrishnan
Asst. prof, IE
20.13/2016

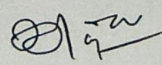

Dr. S. Kumar
Assoc. Prof, IE

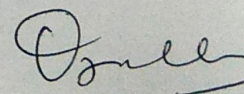

Dr. K. Latha
Assoc. Prof, IE


Dr. D. Manamalli
Assoc. Prof, IE


Dr. G. Geetha
Assoc. Prof, ECE


Dr. V. Natarajan
Professor, IE


Dr. T. Thyagarajan
Professor, IE


Dr. J. Prakash
Prof. & Head, IE
30/11/16



DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T., ANNA UNIVERSITY, CHROMEPET, CHENNAI 600 044

Date: 14.07.2017

Minutes of the Second DCC Meeting for the Academic Year 2017-18, held in the Department of Instrumentation Engineering, MIT Campus, Anna University on 14th July, 2017 at 10.00 A.M.

The Second Departmental Consultative Committee Meeting for the academic year 2017-18 met on 14th July, 2017 at 10.00 A.M in the KVN Conference Hall, Dept. of IE, MIT campus for discussing the single point agenda as follows:

- Recommendation to approve the internship undergone by PG students in order to avail waiver of one professional elective course

The following members were present:

- | | |
|-----------------------------|------------------------------------|
| 1. Dr. J. Prakash | Professor & Head – IE, MIT |
| 2. Dr. T. Thyagarajan | Professor – IE, MIT |
| 3. Dr. V. Natarajan | Professor – IE, MIT |
| 4. Dr. P. Lakshmi | Professor – EEE, CEG Campus, AU |
| 5. Dr. G. Geetha | Assoc. Prof. – ECE, CEG Campus, AU |
| 6. Dr. K. Latha | Assoc. Prof. – IE, MIT |
| 7. Dr. S. Kumar | Assoc. Prof. – IE, MIT |
| 8. Dr. Sabitha Ramakrishnan | Asst. Prof. (SG) – IE, MIT |

Dr. J. Prakash, Professor & Head, IE welcomed the members and discussed the agenda with the members. He quoted Point No. 4.5.2 of PG regulations (R-2015) under CBCS curriculum and informed that two students of M.E (Instrumentation Engineering) have undergone internship as per the following details:

| SL No. | Reg. No. | Name | Branch & Sem | Organization of internship | Internship period |
|--------|------------|--------------|--------------|----------------------------|-------------------|
| 1 | 2016609034 | Shuprajhaa T | M.E (IE) ¼ | NIT – Trichy | 7 weeks |
| 2 | 2016609039 | Trinayani K | M.E (IE) ¼ | IGCAR – Kalpakkam | 6 weeks |

Dr. J. Prakash informed that the above students have given request letters to consider their internship and to grant permission to drop one professional elective course.

The members perused the request letter, internship certificate and internship report submitted by the two students and recommended that the internship undergone by them satisfies the requirement as per Pt. 4.5.2 of PG regulations (R-2015). They also recommended that the students may be permitted to drop one professional elective and the internship may be considered for 3 credits, *subject to report submission and successful viva-voce examination, claimed out in the forthcoming semester.*

Dr. Sabitha Kamakrishnan
Asst. prof, IE

Dr. S. Kumar
Assoc. Prof, IE

Dr. K. Latha
Assoc. Prof, IE

Dr. P. Lakshmi
Professor, EEE

Dr. G. Geetha
Assoc. Prof, ECE

Dr. V. Natarajan
Professor, IE

Dr. T. Thyagarajan
Professor, IE

Dr. J. Prakash
Prof. & Head, IE. 14/7/17

17/7/17



ANNA UNIVERSITY
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T.CAMPUS :: CHENNAI - 600 044

Dr.J. PRAKASH
PROFESSOR & HEAD

Date: 21.04.2017

Circular

The First DCC Meeting for the academic year 2017-18 is to be held as per the following schedule:

Date: 25.04.2017 (Tuesday)
Time: 10.00 A.M.
Venue: Prof. K.V.N. Conference Hall, Dept. of I.E., MIT Campus.

Agenda Points:

1. Open Elective Subjects for other branch students
2. UGC-SAP DRS-I Grant- Procurement of Equipment
3. Head of Account 4.2.64 –Furniture procurement, Equipment procurement and procurement of Air Conditioners for DCF-UG and DCF-PG.
4. Any other matter

May I request the members of DCC to attend the meeting.

the
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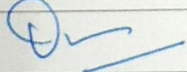
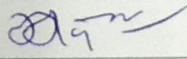

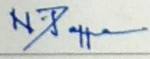
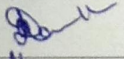
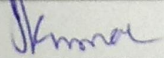
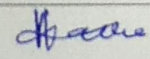
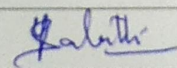
PROFESSOR AND HEAD *21/4/17*

HEAD OF THE DEPARTMENT
DEPT. OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044.

DCC Members:

21.04.2017

Attendance for the meeting

| Sl.No | Member | Designation | Signature |
|-------|-------------------------|------------------------|--|
| 1. | Dr.B.Uma Maheswari | Professor, EEE | — |
| 2. | Dr.P.Lakshmi | Professor, EEE | — |
| 3. | Dr.G.Geetha | Asso. Prof, ECE | G. Geetha . |
| 4. | Dr.J.Prakash | Professor and Head, IE |  |
| 5. | Dr.T.Thyagarajan | Professor, IE |  |
| 6. | Dr.V.Natarajan | Professor, IE |  |
| 7. | Dr.N.Pappa | Asso. Prof., E |  |
| 8. | Dr.D.Manamalli | Asso. Prof., IE |  |
| 9. | Dr.S.Kumar | Asso. Prof., IE |  |
| 10. | Dr.K.Latha | Asso. Prof., IE |  |
| 11. | Dr.Sabitha Ramakrishnan | Asst. Prof., IE |  |



DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T., ANNA UNIVERSITY, CHROMEPET, CHENNAI 600 044

Date: 6.12.2017

Minutes of the Third DCC Meeting for the Academic Year 2017-18, held in the Department of Instrumentation Engineering, MIT Campus, Anna University on 6th December, 2017 at 10.00 A.M.

The Third Departmental Consultative Committee Meeting for the academic year 2017-18 met on 6th December, 2017 at 10.00 A.M in the KVN Conference Hall, Dept. of IE, MIT campus for discussing the single point agenda as follows:

- Recommendation to approve the self study course "IN7007 Fault Tolerant Control" as per the request submitted by Ms. T. Shuprajhaa (Reg. No. 2016609034), student of fourth semester M.E (Instrumentation Engineering), for registration during the even semester Dec 2017 - May 2018.

The following members were present:

- | | |
|-----------------------------|------------------------------------|
| 1. Dr. J. Prakash | Professor & Head - IE, MIT |
| 2. Dr. T. Thyagarajan | Professor - IE, MIT |
| 3. Dr. V. Natarajan | Professor - IE, MIT |
| 4. Dr. P. Lakshmi | Professor - EEE, CEG Campus, AU |
| 5. Dr. G. Geetha | Assoc. Prof. - ECE, CEG Campus, AU |
| 6. Dr. K. Latha | Assoc. Prof. - IE, MIT |
| 7. Dr. S. Kumar | Assoc. Prof. - IE, MIT |
| 8. Dr. Sabitha Ramakrishnan | Asst. Prof. (SG) - IE, MIT |

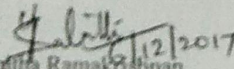
Dr. J. Prakash, Professor & Head, IE welcomed the members and discussed the single point agenda with the members. He quoted Point No. 4.8.1 of PG regulations (R-2015) under CBCS curriculum and informed that one student of M.E (Instrumentation Engineering) has submitted a request letter for undergoing self study course as per details given below:

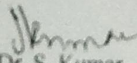
| Sl No. | Reg. No. | Name | Branch & Sem | Subject code & name chosen for self study | Credits |
|--------|------------|--------------|--------------|---|---------|
| 1 | 2016609034 | Shuprajhaa T | M.E (IE) 4/4 | IN7007 Fault Tolerant Control | 3 |

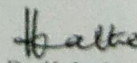
Dr. J. Prakash mentioned that the assessment for this course can be done as per Point No. 10.9 of PG regulations (R-2015) under CBCS curriculum. He proposed the following committee members for periodic monitoring, evaluation and assigning of grade for the student:

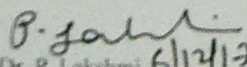
| Sl. No. | Name | Designation & Dept. | Role in the committee |
|---------|------------------|----------------------|---------------------------------|
| 1 | Dr. K. Latha | Assoc. Professor, IE | Faculty in charge of the course |
| 2 | Dr. J. Prakash | Professor, IE | HOD, IE |
| 3 | Dr. D. Manamalli | Assoc. Professor, IE | HOD nominee |

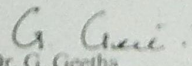
The DCC members, after perusing the request letter of Ms. Shuprajhaa and the points mentioned by the HOD, IE, recommended that the student may be permitted to register for self-study course "IN7007 Fault Tolerant Control" for 3 credits.



Dr. Sabitha Ramakrishnan
Asst. prof, IE

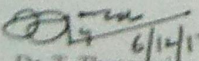

Dr. S. Kumar
Assoc. Prof, IE


Dr. K. Latha
Assoc. Prof, IE

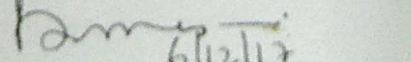

Dr. P. Lakshmi
Professor, EEE



Dr. G. Geetha
Assoc. Prof, ECE


Dr. V. Natarajan
Professor, IE


Dr. T. Thyagarajan
Professor, IE

Recommended.


(B.UMAMAHESWARARI)


Dr. J. Prakash
Prof. & Head, IE

From

Shuprajhaa. T (2016609034),

M.E Second year,

Department of Instrumentation Engineering,

Madras Institute of Technology,

Chennai – 44.

To

The Director of Academic Courses through Head of the Department,

Anna University,

Chennai – 44.

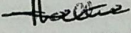
Mam,

Sub: Permission to avail a self-study course - Regd.

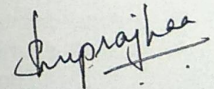
I kindly request you to grant me permission to avail a self-study course of 3 credits as stated below, as a part of my M.E curriculum.

Course Code: IN7007

Course Name: Fault tolerant Control

Faculty in-charge: Dr. K. Latha 
(DR K. LATHA)

Thanking You



(SHUPRAJHAA. T)

Encl: Syllabus of the corresponding subject

Approval letter from DCC committee.

COURSE OBJECTIVES

- To give an overview of different Fault Detection and Diagnosis methods
- To impart knowledge and skills needed to design and detect sensor and actuators faults using structured residual approach as well as directional structured residual approach
- To impart knowledge and skills needed design and detect faults in sensor and actuators using GLR and MLR based Approaches
- To present an overview of various types of fault tolerant control schemes such as Passive and active approaches
- To impart knowledge and skills needed to detect and quantify and compensate stiction in Control valves

UNIT I INTRODUCTION & ANALYTICAL REDUNDANCY CONCEPTS

Introduction - Types of faults and different tasks of Fault Diagnosis and Implementation - Different approaches to FDD: Model free and Model based approaches-Introduction- Mathematical representation of Faults and Disturbances: Additive and Multiplicative types – Residual Generation: Detection, Isolation, Computational and stability properties – Design of Residual generator – Residual specification and Implementation

UNIT II DESIGN OF STRUCTURED RESIDUALS & DIRECTIONAL STRUCTURED RESIDUALS

Introduction- Residual structure of single fault Isolation: Structural and Canonical structures- Residual structure of multiple fault Isolation: Diagonal and Full Row canonical concepts – Introduction to parity equation implementation and alternative representation - Directional Specifications: Directional specification with and without disturbances – Parity Equation Implementation

UNIT III FAULT DIAGNOSIS USING STATE ESTIMATORS

Introduction – State Observer – State Estimators – Norms based residual evaluation and threshold computation - Statistical methods based residual evaluation and threshold settings: Generalized Likelihood Ratio Approach – Marginalized Likelihood Ratio Approach

UNIT IV FAULT TOLERANT CONTROL

Introduction – Passive Fault-tolerant Control- Active Fault tolerant Control - Actuator and Sensor Fault tolerance Principles:- Compensation for actuator – Sensor Fault-tolerant Control Design – Fault-tolerant Control Architecture - Fault-tolerant Control design against major actuator failures.

UNIT V CASE STUDIES

Fault tolerant Control of Three-tank System – Diagnosis and Fault-tolerant control of chemical process – supervision of steam generator – Different types of faults in Control valves – Automatic detection, quantification and compensation of valve stiction

TOTAL : 45 PERIODS

COURSE OUTCOMES

- Ability to Explain different approaches to Fault Detection and Diagnosis
- Ability to design and detect sensor and actuators faults using structured residual approach as well as directional structured residual approach
- Ability to design and detect faults in sensor and actuators using GLR and MLR based Approaches
- Ability to explain various types of fault tolerant control schemes such as Passive and active approaches
- Ability to Design fault-tolerant control scheme in the presence of actuator failures
- Ability to detect and quantify and compensate stiction in Control valves

REFERENCE BOOKS

- 1 Janos J. Gertler, "Fault Detection and Diagnosis in Engineering systems" –2nd Edition, Marcel Dekker, 1998.
- 2 Rolf Isermann, Fault-Diagnosis Systems an Introduction from Fault Detection to Fault Tolerance, Springer Verlag, 2006.
- 3 Steven X. Ding, Model based Fault Diagnosis Techniques: Schemes, Algorithms, and Tools, Springer Publication, 2012.
- 4 Hassan Noura, Didier Theilliol, Jean-Christophe Ponsart, Abbas Chamseddine, Fault-Tolerant Control Systems: Design and Practical Applications, Springer Publication, 2009.
5. Mogens Blanke, Diagnosis and Fault-Tolerant Control, Springer, 2006.
6. Ali Ahammad Shoukat Choudhury, Sirish L. Shah, Nina F. Thornhill, Diagnosis of Process Nonlinearities and Valve Stiction: Data Driven Approaches, Springer, 2008.

4.8 Self Study Courses

4.8.1 Students may be permitted to credit atmost one Self Study course with the approval of Departmental Consultative Committee and Centre for Academic Courses.

4.8.2 The Department / Centre / Division may offer self study courses. The purpose of the course is to permit the student to study a course / topic of the student's choice. The students shall study on their own under the guidance of a faculty member. No formal lectures need be delivered. The syllabus of the course and mode of assessments shall be approved by the Departmental Consultative Committee and forwarded to the Centre for Academic Courses for the formal approval of the course by the academic bodies, preferably before the commencement of the semester. The self study course of 3 credits can be considered as one elective course. One Faculty member approved by the Head of the Department shall be responsible for the periodic monitoring and evaluation of the course.

4.9 Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentations and project / thesis / dissertation reports.

5. DURATION OF THE PROGRAMMES

5.1 The minimum and maximum period for the completion of the P.G. Programmes are given below:

| Programme | Min. No. of Semesters | Max. No. of Semesters |
|---------------------------------------|-----------------------|-----------------------|
| M.E./M.Tech. (Full-Time) | 4 | 8 |
| M.E./M.Tech. (Part Time) | 6 | 12 |
| M.C.A (Full Time- Daytime & Evening) | 6 | 12 |
| M.B.A. (Full Time) | 4 | 8 |
| M.B.A. (Part Time) | 6 | 12 |
| M.Sc. (Full Time) (2 Years) | 4 | 8 |

5.2 Each semester shall normally consist of 90 teaching days (including examination days). The Head of the Department shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus covering the full content of the syllabus for the course being taught.

5.3 The total duration for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum duration specified in clause 5.1 irrespective of the period of break of study (vide clause 16) or prevention (vide clause 7.4) in order that the student may be eligible for the award of the degree (vide clause 14).

10.8 ASSESSMENT FOR ONLINE COURSE

Students may be permitted to credit online courses (which are provided with certificate) with the approval of Departmental Consultative Committee and Centre for Academic Courses subject to a maximum of three credits. This online course of 3 credits can be considered instead of one elective course. Departmental Consultative Committee will take a decision on the evaluation methodology for the online course. The Committee can decide whether to evaluate the online courses through Continuous assessment and End Semester Examination or through End Semester Examination only and same may be conveyed to the Director, Academic Courses at the beginning of the semester when the course is offered. The student needs to obtain certification or credit to become eligible for writing the End Semester Examination to be conducted by Anna University. The Head of the Department may identify a faculty member as coordinator for the course, who is responsible for evaluation process. The course shall be evaluated through the End Semester Examination only. A committee consisting of the Head of the Department, coordinator and a senior Faculty member nominated by the Head of the Department shall assign the grades to the students based on their relative performance.

In case of credits earned through online mode from a University approved by appropriate authorities of Anna University, the credits may be transferred and grades shall be assigned by a committee consisting of Chairman of the Faculty concerned, Head of the Department and Senior faculty member nominated by the Chairman.

10.9 ASSESSMENT FOR SELF STUDY COURSE

The Faculty member approved by the Head of the Department shall be responsible for periodic monitoring and evaluation of the course. The course shall be evaluated through Continuous Assessment (as decided by the Departmental Consultative Committee) and End Semester Examination. The evaluation methodology shall be the same as that of a theory course (vide clause 10.1). A committee consisting of the Head of the Department, the Faculty Member and another senior Faculty member nominated by the Head of the Department shall assign the grades to the students based on their relative performance.

12.

11 PASSING REQUIREMENTS

11.1 The Passing requirement for a student in a course is determined statistically based on the analysis of the marks obtained both in Continuous Assessment and End Semester Examinations. A student who earns a minimum of 6 grade points in a course is declared to have successfully passed the course.

13.

13.1

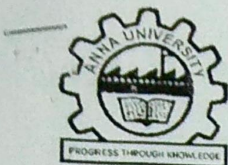
11.1.1 If a student fails to secure a pass in a theory course (except electives), the student shall do reappearance registration for that course in the subsequent semester, when offered next, earn continuous assessment marks and attend the end semester examination.

11.1.2 If the course, in which the student has failed, is an elective, the student may be permitted to register for the same or any other elective course in the subsequent semesters, attend the classes and fulfill the attendance requirements as per Clause 7.

11.1.3 If a student fails to secure a pass in a laboratory course, the student shall register for the course again, when offered next.

11.1.4 If a student fails to secure a pass in project work, the student shall register for the course again, when offered next.

11.2 The passing requirement for the courses which are assessed only through continuous assessment (EEC courses except project work), shall be determined statistically based on the marks obtained in continuous assessment tests.



DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T., ANNA UNIVERSITY, CHROMEPET, CHENNAI 600 044

Date: 22.10.2018

Minutes of the Second DCC Meeting for the Academic Year 2018-19, held in the Department of Instrumentation Engineering, MIT Campus, Anna University on 22.10.2018 at 3:00 PM.

The Second Departmental Consultative Committee Meeting for the academic year 2018-19 met on 22nd October, 2018 at 3:00 PM in the Department Library of Instrumentation Engg Dept, MIT campus, for discussing the following agenda points:

1. Reduction in the Students' Intake of B.E. (E & I) Programme from 120 to 60 from 2019 onwards.
2. Admission to PG Programme in Instrumentation Engineering (from 2019 onwards) – Certain changes to be made in the eligibility criteria.
3. Filling up of vacancies in various teaching and non-teaching cadres.
4. Academic Audit for the Internal Assessment Examinations.
5. Report on the conduct of GIAN course on Practical PID Control.
6. Modernization of various laboratories of IE department
7. Procurement of Furniture
8. Establishment of New labs
9. Any other matter

The following members were present:

- | | |
|------------------------------|---|
| 1. Dr. B. Umamaheswari | Professor, EEE and Chairman, Electrical Engg. |
| 2. Dr. J. Prakash | Professor & Head – IE, MIT |
| 3. Dr. T. Thyagarajan | Professor – IE, MIT |
| 4. Dr. V. Natarajan | Professor – IE, MIT |
| 5. Dr. P. Lakshmi | Professor – EEE, CEG |
| 6. Dr. M. Ganesh Madhan | Professor – Electronics, MIT |
| 7. Dr. N. Pappa | Assoc. Prof. – IE, MIT |
| 8. Dr. S. Srinivasan | Assoc. Prof. – IE, MIT |
| 9. Dr. S. Kumar | Assoc. Prof. – IE, MIT |
| 10. Dr. Sabitha Ramakrishnan | Asst. Prof. (Sel.Gr) – IE, MIT |

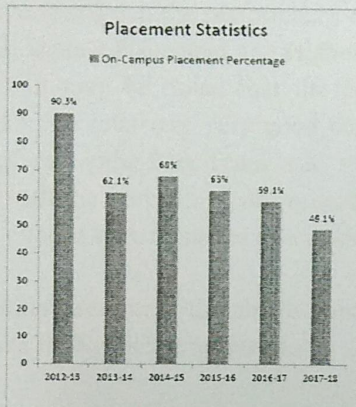
Dr. J. Prakash, Professor & Head, IE welcomed the members and discussed the agenda points with the members.

1. **Reduction in the Students' Intake of B.E. (E & I) Programme from 120 to 60 from 2019 onwards.**

Dr. Prakash mentioned that it is proposed to seek **Syndicate Approval** for the reduction in the intake of B.E.(E &I) programme from 120 to 60 from 2019 onwards. In this connection, a note has been prepared for submission to Vice Chancellor for approval. He presented the justifications in support of this proposal as mentioned in the note to Vice Chancellor. The highlights of his presentation are as follows:

- The intake strength of B.E.(E&I) programme offered by the Department of Instrumentation Engineering was increased from 60 to 120 w.e.f the academic year 2011-12 based on the fact that the on-campus placement score of the B.E. (E & I) programme during the period 2004 - 2010 was more than 85% and also the projected on-campus hiring in the IT sector at that time has been considered to be very high.

Placement Statistics Over the Years 2012-2018



| Batch | Total Batch Strength | No. of Students Placed | Core Industry / Company | IT & IT Services | Finance / Banking / Management | On-Campus Placement Percentage |
|---------|----------------------|------------------------|-------------------------|------------------|--------------------------------|--------------------------------|
| 2012-13 | 62 | 56 | 23 | 31 | 2 | 90.3% |
| 2013-14 | 58 | 36 | 18 | 16 | 2 | 62.1% |
| 2014-15 | 126 | 86 | 17 | 64 | 5 | 68% |
| 2015-16 | 120 | 75 | 18 | 53 | 4 | 63% |
| 2016-17 | 125 | 68 | 19 | 49 | 0 | 59.1% |
| 2017-18 | 114 | 56 | 19 | 37 | 0 | 46.1% |

- However, the above placement statistics show that placement in core industries remains the same irrespective of the student strength.
- Since the campus hiring for IT industry had dropped significantly in the last 4 years, the average placement score had reduced significantly as evident from the above table.
- Students who had been placed in the IT sector don't show any interest towards learning core subjects (Electronics, Instrumentation and Control) this disinterest is reflected in their academic performance in the final year (both 7th Sem. and 8th Sem.) and in the quality of the project work carried out by them.

Dr. Prakash requested the DCC members that the reduction in the intake of B.E.(E & I) programme from 120 to 60 may be recommended for approval as it will be helpful in the following aspects of the department:

- The Faculty:Student Ratio (FSR) will become 1:12 as against the current 1:25 and hence it will enable the department to get re-accreditation of the M.E (Instrumentation Engineering) programme with sufficient Faculty:Student Ratio.
- The students allotted per Faculty advisor will reduce to half. This will enable the faculty members to devote considerable amount of time every week with their full time and part-time research scholars leading to more publications.
- The number of students per class will reduce to half for the faculty members handling subjects. This will enable the faculty members to undertake many Industry sponsored research projects leading to product development, patents, and technology transfer.
- The number of B.E project batches allocated per faculty member will also reduce to one B.E project per faculty member on an average. This will enable the faculty members to spend considerable amount of time with the students thereby encouraging them to participate in their on-going research activities. This in turn will help the students to secure admission into MS (by research)/Ph.D. programme in foreign and Indian universities.

Dr. Prakash

- The decrease in workload will enable the faculty members to enhance their core competency skills by availing leave and pursue their post-doctoral research in foreign universities. At present it is impossible to depute the faculty members for such research work as it will affect the teaching-learning activities severely. It is to be noted that currently, almost all faculty members have been assigned 2 theory subjects and 3 practical sessions (4 hours /session). The average teaching workload of the faculty member is currently 24 hrs per week .
- The UG programme – B.E (E&I) has accredited by NBA in 2016 for 6 years. However, the experts have stated that the performance of the on-campus placement is not satisfactory and in section 4.3, against Placement and Higher Studies, it has been recorded as “Non-Compliance - Weakness”. It may be noted that the placement score at the time of peer-team visit was considered to be relatively very good compared to other institutes. In spite of this fact, the feedback given by the Peer Team was “not satisfactory”. The NBA re-accreditation is due in 2022 and with the prevailing poor on-campus placements; it will be difficult to convince the peer-team experts with regard to on-campus placements.

Dr. Prakash, after presenting the above points, requested the DCC members to recommend the following points for Syndicate approval:

- the additional intake of 60 may kindly be withdrawn permanently from the academic year 2019 onwards
- OR**
- the additional intake of 60 may kindly be withdrawn temporarily for the next three years or until the placement in IT and core sectors improves significantly.

Recommendation by the DCC members:

Based on the various points presented by HOD,IE and the note prepared by the HOD,IE for submission to Vice Chancellor (Refer Annexure), the members unanimously agreed to recommend the permanent withdrawal of the additional intake of 60.

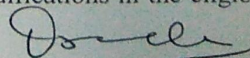
2. Admission to PG Programme in Instrumentation Engineering (from 2019 onwards) – Certain changes to be made in the eligibility criteria.

Dr. Prakash requested the recommendation of the DCC members to modify the eligibility criteria for admission to M.E (Instrumentation Engg) programme as B.E (E&I/ICE/EEE/ECE/Chemical Engg/Mechatronics).

Recommendation by the DCC members:

Earlier in 2015, the eligibility was modified as B.E (E&I/ICE) based on the fact that the students from other branches were unable to cope up with the syllabus topics covered in M.E (Instrumentation Engg). Also, the regulatory body demands that a candidate should have pursued UG and PG in the same branch of study for gaining eligibility for teaching positions and for some Government jobs. Hence, if the eligibility criterion is to be modified, the members recommend it under the following conditions:

- The curriculum should be revamped suitably to include the other branches of B.E in the eligibility list for M.E (Instrumentation Engg).
- The AICTE norms should be referred before incorporating the modifications in the eligibility criteria for M.E (IE) admission.



3. Filing up of vacancies in various teaching and non-teaching cadres:

Dr. Prakash mentioned that Dr. D. Vasanthi was appointed as Associate Professor in the previous recruitment conducted in 2014. Since then, there is one vacancy in faculty position for Assistant Professor. He requested the members to recommend the appointment of a faculty member for that position at the earliest.

Dr. Prakash also presented the list of vacancies to be filled in the non-teaching positions as follows:

| Sl.No. | Name of the staff who retired | Designation at the time of retirement | Date of retirement | Status of the post |
|--------|-------------------------------|---------------------------------------|--------------------|--------------------------|
| 1 | Mrs. Jayathulasi Nandagopal | Superintendent (Purchase assistant) | Aug 2007 | Vacant. To be filled. |
| 2 | Mr. V. Selvaraj | Helper | Oct 2008 | Vacant. To be filled. |
| 3 | Mr. S. Krishnamurthy | Mech. Ordy. Gr. B | Oct 2009 | Vacant. To be filled. |
| 4 | Mr. A. Karuppiyah | Mech. Spl. Gr. C | April 2016 | Vacant. To be filled. |
| 5 | Mrs. C. Thanammal | Typist Grade I | April 2018 | Vacant. To be filled. |

Dr. Prakash requested the DCC members to recommend the filling of one vacant faculty position (Assistant Professor) and 5 non-teaching administrative positions as given in the table above.

Recommendation of the DCC members:

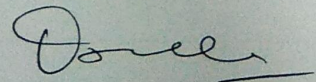
The members recommend the points presented by Dr. Prakash regarding filling up of one vacant faculty position (Assistant Professor) and 5 non-teaching administrative positions as given in the table above.

4. Academic Audit for the Internal Assessment Examinations.

Dr. Prakash mentioned that it is proposed to conduct academic audit for the internal assessment tests. He requested the DCC members to recommend the modalities for conducting the audit and for payment of honorarium.

Recommendation of the DCC members:

The members appreciated Dr. Prakash for the initiative taken to conduct academic audit for internal assessment tests. Dr. T. Thyagarajan requested Dr. Prakash to make a representation in this regard to Director, IQAC and ACOE-UD in order to decide the modalities.



5. Report on the conduct of GIAN course on Practical PID Control

Dr. Prakash mentioned that the GIAN course on Practical PID control was successfully conducted by the department during the period 8.10.2018 to 12.10.2018. The invited speaker for the course was **Dr. Antonio Visioli, Professor, Dept. of Mechanical and Industrial Engg, University of Brescia, Italy.** 24 participants benefited from this course with 12 external and 12 internal participants. The course covered all the essential theoretical and practical aspects of PID control.

Remarks of the DCC members:

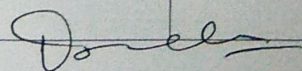
The members appreciated Dr. Prakash for the regular conduct of GIAN course for two years in succession. Dr. M. Ganesh Madhan mentioned that he received a very good feedback from some participants of the course.

6. Modernization of Various laboratories of IE department:

Dr. Prakash presented the requirement for various laboratories based on the curriculum of B.E (E&I) CBCS Regulation 2015 for the forthcoming three academic years along with the budget estimate as follows:

(Total estimated cost for modernization of laboratories: Rs. 100 L):

| Sl. No. | Name of the Laboratory | Approximate Cost Required to Modernize the Laboratory (Rs. In Lakh) | Funds Requested under Budget Estimate (BE-2019-20) (Rs. in Lakh) | Funds Requested under Budget Estimate (BE-2020-21) (Rs. in Lakh) | Funds Requested under Budget Estimate (BE-2021-22) (Rs. In Lakh) |
|---------|---|---|--|--|--|
| 1. | EI 7512 - Microprocessor and Interfacing Laboratory (CBCS Regulation 2015): Microprocessor and Microcontroller kits/ DSP kits/ RTOS kits along with compilers, Interfacing boards for the Microprocessor and Interfacing Laboratory, Proteus Design Suite | Rs. 8.0 L | Rs. 2.0 L | Rs. 6.0 L | Rs. 0.0 L |
| 2. | EI7611-Industrial Instrumentation Laboratory (CBCS Regulation 2015): Rotameter based Flow Measurement Test Rig, Viscometer Weight Measurement Setup and Data Loggers, Turbidity Meter and Oxygen Analyzer | Rs. 9.0 L | Rs. 4.5 L | Rs. 4.5 L | Rs. 0.0 L |
| 3. | EI 7411 - Digital System Laboratory (CBCS Regulation 2015): Wireless HART enabled Transmitters and IOT gateway, Up-gradation of HART & FF | Rs. 7.0 L | Rs. 5.0 L | Rs. 2.0 L | Rs. 0.0 L |



| | | | | | |
|----|---|------------|------------|-----------|------------|
| | Communicator, Network analyzers, Networking Tools | | | | |
| 4. | EI 7412- Sensors and Signal-Conditioning Circuits Laboratory (CBCS Regulation 2015): Data Acquisition cards, RTDs/Thermocouples, Strain gauges, LVDT, RVDI, encoders, fibre optic sensors, MEMS based sensors, Signal Conditioning Modules for various transducers, AC and DC Bridges | Rs. 5.0 L | Rs. 3.0 L | Rs. 2.0 L | Rs. 0.0 L |
| 5. | EI 7712 - Industrial Automation Laboratory (CBCS Regulation 2015) Wireless HART enabled Transmitters and IOT gateway, Up-gradation of HART & FF Communicator, Network analyzers, Networking Tools | Rs. 7.0 L | Rs. 0.0 L | Rs. 0.0 L | Rs. 7.0 L |
| 6 | EI 7612 - Process Control Laboratory (CBCS Regulation 2015): Design and Fabrication of experimental test setup to determine the Characteristic of Control valves, Process Recorders, USB Data Acquisition cards, Single Loop Controllers | Rs. 7.0 L | Rs. 2.0 L | Rs. 5.0 L | Rs. 0.0 L |
| 7. | EI 7312 - Analog Signal Processing Laboratory (CBCS Regulation 2015) Test & Measuring Equipment (DSO(s), Power supplies, Digital Multi-meters, Analog voltage / current meters, Function Generators, FPAA boards), Analog Signal Processing Trainer kits. | Rs. 9.0 L | Rs. 6.0L | Rs. 2.0 L | Rs. 1.0 L |
| 8. | Procurement of Computers for various Laboratories (i7 processor and computer accessories) | Rs. 18.0 L | Rs. 3.0 L | Rs. 3.0 L | Rs. 12.0L |
| 9. | Procurement of Software for various Laboratories (CBCS Regulation 2015) | Rs. 30.L | Rs. 10.0 L | Rs. 10.0L | Rs. 10.0 L |

| | | | | |
|--|-------------|------------|------------|------------|
| MATLAB/Simulink and its toolboxes (10 user License) for the EI 7211 Circuit Simulation Laboratory, Up-gradation of Emerson DCS software available in the Industrial Automation Laboratory, Procurement of OrCAD software for the EI 7312 – Analog Signal Processing Laboratory (CBCS Regulation 2015) | | | | |
| Total | Rs. 100.0 L | Rs. 35.5 L | Rs. 34.5 L | Rs. 30.0 L |

7. Procurement of furniture:

Dr. Prakash presented the furniture requirements for the various Laboratories, Class rooms, Conference Hall and Faculty rooms for the forthcoming three academic years, as follows:
(Total estimated cost for procurement of furniture: Rs. 44 L):

| S.No. | Name of the Laboratory/ Conference Hall etc. | Approximate Cost Required towards procurement of furniture for various Laboratories, conference hall etc. (Rs. in Lakh) | Funds Requested under Budget Estimate (BE-2019-20) (Rs. in Lakh) | Funds Requested under Budget Estimate (BE-2020-21) (Rs. in Lakh) | Funds Requested under Budget Estimate (BE-2021-22) (Rs. In Lakh) |
|-------|--|---|--|--|--|
| 1. | Wooden Tables for the various Laboratories (Not exceeding 75 Nos.) 1. Process Control Laboratory (7 Nos.), 2. Control Systems Laboratory (7 Nos.) 3. Industrial Automation Laboratory (7 Nos.) 4. Transducers & Measurements Laboratory (7 Nos.) 5. Industrial Instrumentation Laboratory (7 Nos.) 6. Embedded Systems Laboratory (7 Nos.) 7. Electronics Laboratory (12 Nos.) 8. DCF-UG (7 Nos.) 9. DCF-PG (7 Nos.) 10. Electrical Machines Laboratory (7 Nos.) | Rs. 22.5 L | Rs. 7.5 L | Rs. 7.5 L | Rs. 7.5 L |

Dr. Prakash

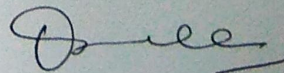
| | | | | | |
|----|--|------------|-----------|-----------|-----------|
| 2. | <p>Wooden Stools for the various Laboratories (Not Exceeding 275 Nos.):</p> <ol style="list-style-type: none"> 1. Process Control Laboratory (25 Nos.), 2. Control Systems Laboratory (25 Nos.) 3. Industrial Automation Laboratory (25 Nos.) 4. Transducers & Measurements Laboratory (25 Nos.) 5. Industrial Instrumentation Laboratory (50 Nos.) 6. Embedded Systems Laboratory (25 Nos.) 7. Electronics Laboratory (25 Nos.) 8. DCF-UG (25 Nos.) 9. DCF-PG (25 Nos.) 10. Electrical Machines Laboratory (25 Nos.) | Rs. 10.0 L | Rs. 5.0 L | Rs. 5.0 L | Rs. 0.0 L |
| 3. | <p>Chairs for the DCF-UG and DCF-PG (Not Exceeding 60 Nos.):</p> <p>Novella Chair for the Seminar Hall (30 Nos.) and Department Library (30 Nos.) (Model: NS07 SS)</p> <p>Note: DCF = Dept. Computing Facility</p> | Rs. 1.0 L | Rs. 0.5 L | Rs. 0.5 L | Rs.0.0 L |
| 4. | <p>Steel Senior Plain cupboard with 4-shelves making 5 compartments for Laboratories and faculty rooms in the new building (Not exceeding 50 Nos.)</p> <ol style="list-style-type: none"> 1. Process Control Laboratory (3 Nos.), | Rs. 7.5 L | Rs. 0.0 L | Rs. 3.0 L | Rs. 4.5 L |

| | | | | | |
|----|--|-----------------|-------------------|-------------------|-------------------|
| | 2. Control Systems Laboratory (3 Nos.) 3. Industrial Automation Laboratory (3 Nos.) 4. Transducers & Measurements Laboratory (3 Nos.) 5. Industrial Instrumentation Laboratory (3 Nos.) 6. Embedded Systems Laboratory (3 Nos.) 7. Electronics Laboratory (3 Nos.) 8. DCF-UG (3 Nos.) 9. DCF-PG (3 Nos.) 10. Electrical Machines Laboratory (3 Nos.) 11. Office Room (3 Nos.) 12. Department Library (3 Nos.) Faculty members (14 Nos.) | | | | |
| 5. | Furniture for Staff rooms, Research Scholars room and Department Library – (Not Exceeding 50 Nos.) "S" type visitor chair with cushion seat and back with maroon colour cloth, Model: TSF 107 from M/s TANSI Furniture Works Chennai-32 | Rs. 3.0 L | Rs. 3.0 L | Rs. 0.0 L | Rs. 0.0 L |
| | Total | Rs. 44 L | Rs. 16.0 L | Rs. 16.0 L | Rs. 12.0 L |

Dr. Prakash requested the DCC members to recommend the points presented in 6 and 7

Recommendations of the DCC members:

The members recommended the points presented under 6 and 7 above.



8. Establishment of new labs for UG/PG:

Dr. Prakash mentioned that it is proposed to introduce new labs in the department as follows:

UG:

- Industrial Data Communication Lab
- Calibration Lab

PG:

- Process Data Analytics Lab
- Advanced Industrial Data Communication Lab

Dr. Prakash mentioned that the requirements regarding the items of equipment and the budget estimate will be presented in the next DCC meeting. He requested the DCC members to recommend the sanction of infrastructure facilities to establish the above laboratories for the benefit of the UG and PG students.

Recommendation by the DCC members:

The members welcomed the introduction of state-of-art lab facilities for the UG/PG students and recommended the same. They agreed to peruse the detailed requirements along with the budget estimate during the next meeting.

9. Any other matter:

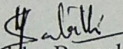
Hostel facility for PG students:

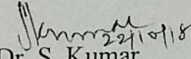
Dr. Prakash mentioned that all the eligible PG students are currently not provided hostel facility. He requested the DCC members to recommend hostel facility for all eligible PG students.

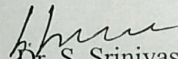
Recommendation by the DCC members:

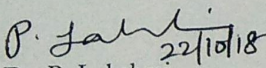
The members recommended the same.

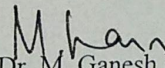
The meeting concluded by 4.30 PM. Dr. Sabitha Ramakrishnan proposed the vote of thanks.

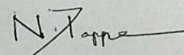

Dr. Sabitha Ramakrishnan
Asst. Prof, IE

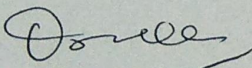

Dr. S. Kumar
Assoc. Prof, IE

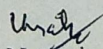

Dr. S. Srinivasan
Assoc. Prof, IE

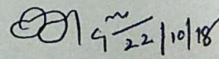

Dr. P. Lakshmi
Professor, EEE

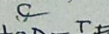

Dr. M. Ganesh Madhan
Prof, ECE

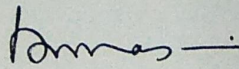

Dr. N. Pappa
Assoc. Professor, IE


Dr. J. Prakash
Professor, IE


Dr. V. Nataraajan
Prof. IE


Dr. T. Thyagarajan
Prof. IE


HOD - IE


Dr. B. Umamaheswari
Chairperson, Faculty of EEE



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REGISTRAR

E-mail : registrar@annauniv.edu

Letter No.3040/DPD/2018

Dated 22.10.2018

To

1. All the Deans of Campuses.
2. All the Deans of Constituent Colleges.
3. All the Chairman (Faculty)
4. The Chairman, Sports Board
5. All the Heads of Departments
6. All the Directors of Centres
7. The Professor and Estate Officer, AU.
8. The Additional Director, CCC

Sub: Anna University – Facilities Required for students - Regarding

&&&&&

I am by direction of the Vice-Chancellor, to seek your support and immediate inputs on the need / justification and budget for the following with detailed Plans & Estimated costs for new building / infrastructure and with quotation for Equipment, Infrastructure for laboratories

Renovation of Building & Up gradation of laboratories

- Modernization of UG Labs
- Hostel for students with infrastructure
- Canteen / Food Court
- Gym, Mess and other amenities for students
- New Laboratories for Research / Innovation with a 4/5 storey building (MIT / ACT / CEG / SAP)

In this regard, you are asked to convene DCC meeting / Faculty meeting by assigning works to each faculty and the summary of your requirement in detail is to be sent to the Director, Planning and Development on or before 30.10.2018 at 5.00 pm.

Further inputs on the following is to be submitted to Deans / Chairman (Sports Board), Professor and Estate Officer and Director, RCC

- Health centre / Modernization
- Sports facility
- Security services
- Wi-Fi facility
- Internet facility

Yours sincerely

sd/-
REGISTRAR



ANNA UNIVERSITY
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS :: CHENNAI - 600 044

Dr.J. PRAKASH
Professor & Head

16.11.2018

To

The Registrar
Anna University
Chennai 600 025.

Sir,

Sub: Department of Instrumentation Engineering - DCC Meeting held on
22.10.2018 - Reg.

Ref: Your letter No.3040/DPD/2018, dated 22.10.2018.

-o-

As per the direction of the Vice-Chancellor and the Registrar, Anna University, the Department Consultative Meeting (DCC) was convened on 22.10.2018 at the Department of Instrumentation Engineering, MIT Campus, Anna University. It is brought to your kind attention that requirements for modernization of existing UG laboratories, establishment of new laboratories etc were discussed in the Department Consultative Meeting. Please find the enclosed minutes of the DCC meeting for your kind perusal.

PROFESSOR & HEAD
DEPT. OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044.

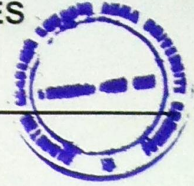
Encl: Minutes of
the DCC Meeting.



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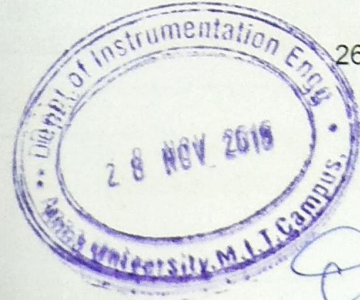
CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY
CHENNAI - 600 025



Dr. R. RAJU
DIRECTOR

Letter No. 3680/AU/CAC/SSC/FE/2018

To
The Head
Department of Instrumentation Engineering
MIT Campus
Anna University
Chennai - 600 044.



26.11.2018

Sir,

Sub: Meeting of the Syllabus Sub Committees - Approved Members List - reg.

The lists of Syllabus Sub Committee members for all UG and PG programmes of Department of Instrumentation Engineering, approved by the Vice Chancellor are enclosed herewith. In Coordination with the Chairperson, Faculty of Electrical Engineering, **you are hereby requested to convene the meetings of the Syllabus Sub Committees to finalize the Curriculum and Syllabi for all UG and PG programmes concerned within the month of December 2018.** Necessary financial support and guidelines will be provided from the Centre for Academic Courses. The Time, Date and Venue of the Syllabus Sub Committee Meetings may please be informed to the Centre for Academic Courses through the Chairperson by mail (cacannauniv@gmail.com) and by letter **on or before 07.12.2018.**

Thanking You,

Yours faithfully,


DIRECTOR

Encl: Lists of Syllabus Sub Committee Members.

Copy to:

1. The Chairperson, Faculty of Electrical Engineering, Anna University, Chennai - 25.
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ANNA UNIVERSITY:: CHENNAI-25
 SYLLABUS SUB COMMITTEE FOR FRAMING CURRICULA AND SYLLABI
 UG PROGRAMME (R-2019)
 UNIVERSITY DEPARTMENTS
 FACULTY OF ELECTRICAL ENGINEERING
 B.E. ELECTRONICS AND INSTRUMENTATION ENGINEERING
 MEMBERS LIST

| S.NO | NAME, DESIGNATION AND ADDRESS | PHONE NUMBER AND EMAIL.ID |
|---|--|--|
| CHAIRPERSON - FACULTY OF ELECTRICAL ENGINEERING | | |
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| 6. | Dr. K. Latha, Professor, Department of Instrumentation Engineering, MIT Campus, Anna University, Chennai-44 | 9500064042 lat_padhu@yahoo.com |

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|----|--|--|
| 7. | Mr. Vishnu Varadan, B.E. (E&I) - FINAL YEAR STUDENT, Department of Instrumentation Engineering, MIT Campus, Anna University, Chennai-44 | 9940622798 ultramicroscopic2012@gmail.com |
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ALUMNI OF THE UG PROGRAMME

| | | |
|----|--|--|
| 9. | Mr. S. Parameswaran, Senior Analyst Engineering, M/s Caterpillar India Private Limited Chennai- 600 113. | 76074752 paramesh282@ymail.com |
|----|--|--|

REPRESENTATIVES FROM USER INDUSTRIES

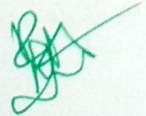
| | | |
|----|---|--|
| 10 | Mr. C. J. Jayaharan, Senior Manager Automation Projects, M/s Ramco Systems Limited, Chennai- 600 113 | 9884264212 jayaharancj@gmail.com |
| 11 | Mr. S. Vijayaraghavan, Automation Consultant, Raja annamalaipuram, Chennai-28 | 9444494795 vijayrag.viji@gmail.com |

REPRESENTATIVES FROM CENTRAL/STATE UNIVERSITIES

| | | |
|-----|--|--|
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| 13. | Dr. Bobby George, Associate Professor, Department of Electrical Engineering, IIT Madras, Chennai-36 | 044-22574465 boby@iitm.ac.in |

FACULTY FROM ALLIED DEPARTMENT

| | | |
|-----|---|--|
| 14. | Dr. Mala John, Professor, Department of Electronics Engineering, MIT campus, Anna university, Chennai-44 | 9444443706 malajohnmit@gmail.com |
|-----|---|--|



**DIRECTOR
ACADEMIC COURSES**

ANNA UNIVERSITY :: CHENNAI-25
 SYLLABUS SUB COMMITTEE FOR FRAMING CURRICULA AND SYLLABI OF
 PG PROGRAMMES (R-2019)
 UNIVERSITY DEPARTMENTS
FACULTY OF ELECTRICAL ENGINEERING

1. M.E. (INSTRUMENTATION ENGINEERING)
2. M.E. (CONTROL AND INSTRUMENTATION ENGINEERING)

MEMBERS LIST

| S.No | Name, Designation and Address | Phone Number and email. ID |
|---|--|---|
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| 5 | Dr.P.Lakshmi, Professor Department of Electrical and Electronics Engineering Anna University, Chennai – 25. | 9444266117 p_lakshmi@annauniv.edu |
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| 6. | Dr. T. Thyagarajan Professor Department of Instrumentation Engineering, MIT Campus, Anna University, Chennai – 44. | 94441 04850 thyagu_vel@yahoo.co.in |

| | | |
|--|--|--|
| 7 | Dr. K.Udhayakumar Professor Department of Electrical and Electronics Engg. Anna University Chennai -25 | 9444222262 k.udhay@gmail.com |
| REPRESENTATIVES FROM RELEVANT INDUSTRIES | | |
| 8. | Ms.F.Jeffy Business Intelligence Specialist ABB, ability Innovation Centre Bhoruka Tech Park Whitefield Main Road Mahadevapura Bengaluru Karnataka 560 048 | 9940023540 jeffyjf@gmail.com |
| 9. | Mr.M.Balaji Technical Director Frontline Electronics Pvt. Ltd Pandian Street Alangapuram Salem 636 016 | 0427 2431312 |
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| 10. | Dr. Sridharakumar Narasimhan Associate Professor Department of Chemical Engineering IIT(M), Chennai – 36. | 9445215505 sridharkrn@iitm.ac.in |
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| SENIOR FACULTY FROM ALLIED DEPARTMENTS | | |
| 12. | Dr.R.Sivaramakrishnan, Professor Department of Production Technology, MIT Campus, Anna University, Chennai – 25. | 9962481995 srk@mitindia.edu |
| SENIOR STUDENT REPRESENTATIVES | | |
| 13. | B.Swetha 2 nd Year PG Student Department of Instrumentation Engineering MIT Campus, Anna University, Chennai – 44. | 7598031838 sapphireflames3@gmail.com |
| 14 | D.Nivedhika 2 nd year PG Student Department of Electrical Engineering CEG Campus, Anna University, Chennai – 25 | 8015359995 devaraj.nivehika@gmail.com |

ALUMINI OF THE PG PROGRAMME

| | | |
|-----|---|--|
| 15. | Dr. K. Srinivasan Associate Professor Department of Instrumentation & Control Engineering NIT Trichy Trichy – 620 015. | 9443661591 srinikkn@nitt.edu |
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DIRECTOR
ACADEMIC COURSES



DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T., ANNA UNIVERSITY, CHROMEPET, CHENNAI 600 044

Date: 22.10.2018

Minutes of the Second DCC Meeting for the Academic Year 2018-19, held in the Department of Instrumentation Engineering, MIT Campus, Anna University on 22.10.2018 at 3:00 PM.

The Second Departmental Consultative Committee Meeting for the academic year 2018-19 met on 22nd October, 2018 at 3:00 PM in the Department Library of Instrumentation Engg Dept, MIT campus, for discussing the following agenda points:

1. Reduction in the Students' Intake of B.E. (E & I) Programme from 120 to 60 from 2019 onwards.
2. Admission to PG Programme in Instrumentation Engineering (from 2019 onwards) – Certain changes to be made in the eligibility criteria.
3. Filling up of vacancies in various teaching and non-teaching cadres.
4. Academic Audit for the Internal Assessment Examinations.
5. Report on the conduct of GIAN course on Practical PID Control.
6. Modernization of various laboratories of IE department
7. Procurement of Furniture
8. Establishment of New labs
9. Any other matter

The following members were present:

- | | |
|------------------------------|---|
| 1. Dr. B. Umamaheswari | Professor, EEE and Chairman, Electrical Engg. |
| 2. Dr. J. Prakash | Professor & Head – IE, MIT |
| 3. Dr. T. Thyagarajan | Professor – IE, MIT |
| 4. Dr. V. Natarajan | Professor – IE, MIT |
| 5. Dr. P. Lakshmi | Professor – EEE, CEG |
| 6. Dr. M. Ganesh Madhan | Professor – Electronics, MIT |
| 7. Dr. N. Pappa | Assoc. Prof. – IE, MIT |
| 8. Dr. S. Srinivasan | Assoc. Prof. – IE, MIT |
| 9. Dr. S. Kumar | Assoc. Prof. – IE, MIT |
| 10. Dr. Sabitha Ramakrishnan | Asst. Prof. (Sel.Gr) – IE, MIT |

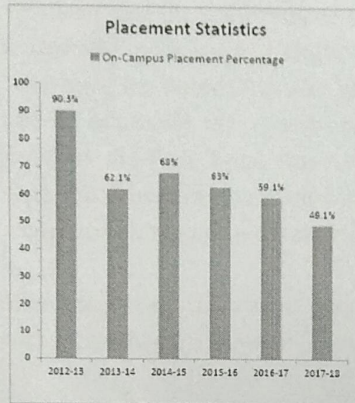
Dr. J. Prakash, Professor & Head, IE welcomed the members and discussed the agenda points with the members.

- 1. Reduction in the Students' Intake of B.E. (E & I) Programme from 120 to 60 from 2019 onwards.**

Dr. Prakash mentioned that it is proposed to seek **Syndicate Approval** for the reduction in the intake of B.E.(E &I) programme from 120 to 60 from 2019 onwards. In this connection, a note has been prepared for submission to Vice Chancellor for approval. He presented the justifications in support of this proposal as mentioned in the note to Vice Chancellor. The highlights of his presentation are as follows:

The intake strength of B.E.(E&I) programme offered by the Department of Instrumentation Engineering was increased from 60 to 120 w.e.f the academic year 2011-12 based on the fact that the on-campus placement score of the B.E. (E & I) programme during the period 2004 - 2010 was more than 85% and also the projected on-campus hiring in the IT sector at that time has been considered to be very high.

Placement Statistics Over the Years 2012-2018



| Batch | Total Batch Strength | No. of Students Placed | Core Industry / Company | IT & IT Services | Finance / Banking / Management | On-Campus Placement Percentage |
|---------|----------------------|------------------------|-------------------------|------------------|--------------------------------|--------------------------------|
| 2012-13 | 62 | 56 | 23 | 31 | 2 | 90.3% |
| 2013-14 | 58 | 36 | 18 | 16 | 2 | 62.1% |
| 2014-15 | 126 | 86 | 17 | 64 | 5 | 68% |
| 2015-16 | 120 | 75 | 18 | 53 | 4 | 63% |
| 2016-17 | 115 | 68 | 19 | 49 | 0 | 59.1% |
| 2017-18 | 114 | 56 | 19 | 37 | 0 | 48.1% |

- However, the above placement statistics show that placement in core industries remains the same irrespective of the student strength.
- Since the campus hiring for IT industry had dropped significantly in the last 4 years, the average placement score had reduced significantly as evident from the above table.
- Students who had been placed in the IT sector don't show any interest towards learning core subjects (Electronics, Instrumentation and Control) this disinterest is reflected in their academic performance in the final year (both 7th Sem. and 8th Sem.) and in the quality of the project work carried out by them.

Dr. Prakash requested the DCC members that the reduction in the intake of B.E.(E & I) programme from 120 to 60 may be recommended for approval as it will be helpful in the following aspects of the department:

- The Faculty:Student Ratio (FSR) will become 1:12 as against the current 1:25 and hence it will enable the department to get re-accreditation of the M.E (Instrumentation Engineering) programme with sufficient Faculty:Student Ratio.
- The students allotted per Faculty advisor will reduce to half. This will enable the faculty members to devote considerable amount of time every week with their full time and part-time research scholars leading to more publications.
- The number of students per class will reduce to half for the faculty members handling subjects. This will enable the faculty members to undertake many Industry sponsored research projects leading to product development, patents, and technology transfer.
- The number of B.E project batches allocated per faculty member will also reduce to one B.E project per faculty member on an average. This will enable the faculty members to spend considerable amount of time with the students thereby encouraging them to participate in their on-going research activities. This in turn will help the students to secure admission into MS (by research)/Ph.D. programme in foreign and Indian universities.

Dr. Prakash

The decrease in workload will enable the faculty members to enhance their core competency skills by availing leave and pursue their post-doctoral research in foreign universities. At present it is impossible to depute the faculty members for such research work as it will affect the teaching-learning activities severely. It is to be noted that currently, almost all faculty members have been assigned 2 theory subjects and 3 practical sessions (4 hours /session). The average teaching workload of the faculty member is currently 24 hrs per week .

- The UG programme – B.E (E&I) has accredited by NBA in 2016 for 6 years. However, the experts have stated that the performance of the on-campus placement is not satisfactory and in section 4.3, against Placement and Higher Studies, it has been recorded as “Non-Compliance - Weakness’. It may be noted that the placement score at the time of peer-team visit was considered to be relatively very good compared to other institutes. In spite of this fact, the feedback given by the Peer Team was “not satisfactory”. The NBA re-accreditation is due in 2022 and with the prevailing poor on-campus placements; it will be difficult to convince the peer-team experts with regard to on-campus placements.

Dr. Prakash, after presenting the above points, requested the DCC members to recommend the following points for Syndicate approval:

- the additional intake of 60 may kindly be withdrawn permanently from the academic year 2019 onwards

OR

- the additional intake of 60 may kindly be withdrawn temporarily for the next three years or until the placement in IT and core sectors improves significantly.

Recommendation by the DCC members:

Based on the various points presented by HOD,IE and the note prepared by the HOD,IE for submission to Vice Chancellor (Refer Annexure), the members unanimously agreed to recommend the permanent withdrawal of the additional intake of 60.

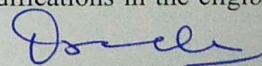
2. Admission to PG Programme in Instrumentation Engineering (from 2019 onwards) – Certain changes to be made in the eligibility criteria.

Dr. Prakash requested the recommendation of the DCC members to modify the eligibility criteria for admission to M.E (Instrumentation Engg) programme as B.E (E&I/ICE/EEE/ECE/Chemical Engg/Mechatronics).

Recommendation by the DCC members:

Earlier in 2015, the eligibility was modified as B.E (E&I/ICE) based on the fact that the students from other branches were unable to cope up with the syllabus topics covered in M.E (Instrumentation Engg). Also, the regulatory body demands that a candidate should have pursued UG and PG in the same branch of study for gaining eligibility for teaching positions and for some Government jobs. Hence, if the eligibility criterion is to be modified, the members recommend it under the following conditions:

- The curriculum should be revamped suitably to include the other branches of B.E in the eligibility list for M.E (Instrumentation Engg).
- The AICTE norms should be referred before incorporating the modifications in the eligibility criteria for M.E (IE) admission.



3. Filing up of vacancies in various teaching and non-teaching cadres:

Dr. Prakash mentioned that Dr. D. Vasanthi was appointed as Associate Professor in the previous recruitment conducted in 2014. Since then, there is one vacancy in faculty position for Assistant Professor. He requested the members to recommend the appointment of a faculty member for that position at the earliest.

Dr. Prakash also presented the list of vacancies to be filled in the non-teaching positions as follows:

| Sl.No. | Name of the staff who retired | Designation at the time of retirement | Date of retirement | Status of the post |
|--------|-------------------------------|---------------------------------------|--------------------|--------------------------|
| 1 | Mrs. Jayathulasi Nandagopal | Superintendent (Purchase assistant) | Aug 2007 | Vacant. To be filled. |
| 2 | Mr. V. Selvaraj | Helper | Oct 2008 | Vacant. To be filled. |
| 3 | Mr. S. Krishnamurthy | Mech. Ord. Gr. B | Oct 2009 | Vacant. To be filled. |
| 4 | Mr. A. Karupiah | Mech. Spl. Gr. C | April 2016 | Vacant. To be filled. |
| 5 | Mrs. C. Thanammal | Typist Grade I | April 2018 | Vacant. To be filled. |

Dr. Prakash requested the DCC members to recommend the filling of one vacant faculty position (Assistant Professor) and 5 non-teaching administrative positions as given in the table above.

Recommendation of the DCC members:

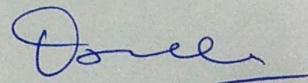
The members recommend the points presented by Dr. Prakash regarding filling up of one vacant faculty position (Assistant Professor) and 5 non-teaching administrative positions as given in the table above.

4. Academic Audit for the Internal Assessment Examinations.

Dr. Prakash mentioned that it is proposed to conduct academic audit for the internal assessment tests. He requested the DCC members to recommend the modalities for conducting the audit and for payment of honorarium.

Recommendation of the DCC members:

The members appreciated Dr. Prakash for the initiative taken to conduct academic audit for internal assessment tests. Dr. T. Thyagarajan requested Dr. Prakash to make a representation in this regard to Director, IQAC and ACOE-UD in order to decide the modalities.



Report on the conduct of GIAN course on Practical PID Control

Dr. Prakash mentioned that the GIAN course on Practical PID control was successfully conducted by the department during the period 8.10.2018 to 12.10.2018. The invited speaker for the course was **Dr. Antonio Visioli, Professor, Dept. of Mechanical and Industrial Engg, University of Brescia, Italy.** 24 participants benefited from this course with 12 external and 12 internal participants. The course covered all the essential theoretical and practical aspects of PID control.

Remarks of the DCC members:

The members appreciated Dr. Prakash for the regular conduct of GIAN course for two years in succession. Dr. M. Ganesh Madhan mentioned that he received a very good feedback from some participants of the course.

6. Modernization of Various laboratories of IE department:

Dr. Prakash presented the requirement for various laboratories based on the curriculum of B.E (E&I) CBCS Regulation 2015 for the forthcoming three academic years along with the budget estimate as follows:

(Total estimated cost for modernization of laboratories: Rs. 100 L):

| Sl. No. | Name of the Laboratory | Approximate Cost Required to Modernize the Laboratory (Rs. In Lakh) | Funds Requested under Budget Estimate (BE-2019-20) (Rs. in Lakh) | Funds Requested under Budget Estimate (BE-2020-21) (Rs. in Lakh) | Funds Requested under Budget Estimate (BE-2021-22) (Rs. In Lakh) |
|---------|---|---|--|--|--|
| 1. | EI 7512 - Microprocessor and Interfacing Laboratory (CBCS Regulation 2015): Microprocessor and Microcontroller kits/ DSP kits/ RTOS kits along with compilers, Interfacing boards for the Microprocessor and Interfacing Laboratory, Proteus Design Suite | Rs. 8.0 L | Rs. 2.0 L | Rs. 6.0 L | Rs. 0.0 L |
| 2. | EI7611-Industrial Instrumentation Laboratory (CBCS Regulation 2015): Rotameter based Flow Measurement Test Rig, Viscometer Weight Measurement Setup and Data Loggers, Turbidity Meter and Oxygen Analyzer | Rs. 9.0 L | Rs. 4.5 L | Rs. 4.5 L | Rs. 0.0 L |
| 3. | EI 7411 - Digital System Laboratory (CBCS Regulation 2015): Wireless HART enabled Transmitters and IOT gateway, Up-gradation of HART & FF | Rs. 7.0 L | Rs. 5.0 L | Rs. 2.0 L | Rs. 0.0 L |

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| | Communicator, Network analyzers, Networking Tools | | | | |
| 4. | EI 7412- Sensors and Signal-Conditioning Circuits Laboratory (CBCS Regulation 2015): Data Acquisition cards, RTDs/Thermocouples, Strain gauges, LVDT, RVDT, encoders, fibre optic sensors, MEMS based sensors, Signal Conditioning Modules for various transducers, AC and DC Bridges | Rs. 5.0 L | Rs. 3.0 L | Rs. 2.0 L | Rs. 0.0 L |
| 5. | EI 7712 - Industrial Automation Laboratory (CBCS Regulation 2015) Wireless HART enabled Transmitters and IOT gateway, Up-gradation of HART & FF Communicator, Network analyzers, Networking Tools | Rs. 7.0 L | Rs. 0.0 L | Rs. 0.0 L | Rs. 7.0 L |
| 6. | EI 7612 - Process Control Laboratory (CBCS Regulation 2015): Design and Fabrication of experimental test setup to determine the Characteristic of Control valves, Process Recorders, USB Data Acquisition cards, Single Loop Controllers | Rs. 7.0 L | Rs. 2.0 L | Rs. 5.0 L | Rs. 0.0 L |
| 7. | EI 7312 - Analog Signal Processing Laboratory (CBCS Regulation 2015) Test & Measuring Equipment (DSO(s), Power supplies, Digital Multi-meters, Analog voltage / current meters, Function Generators, FPAA boards), Analog Signal Processing Trainer kits. | Rs. 9.0 L | Rs. 6.0L | Rs. 2.0 L | Rs. 1.0 L |
| 8. | Procurement of Computers for various Laboratories (i7 processor and computer accessories) | Rs. 18.0 L | Rs. 3.0 L | Rs. 3.0 L | Rs. 12.0L |
| 9. | Procurement of Software for various Laboratories (CBCS Regulation 2015) | Rs. 30.L | Rs. 10.0 L | Rs. 10.0L | Rs. 10.0 L |

| | | | | |
|--|-------------|------------|------------|------------|
| MATLAB/Simulink and its toolboxes (10 user License) for the EI 7211 Circuit Simulation Laboratory, Up-gradation of Emerson DCS software available in the Industrial Automation Laboratory, Procurement of OrCAD software for the EI 7312 – Analog Signal Processing Laboratory (CBCS Regulation 2015) | | | | |
| Total | Rs. 100.0 L | Rs. 35.5 L | Rs. 34.5 L | Rs. 30.0 L |

7. Procurement of furniture:

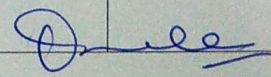
Dr. Prakash presented the furniture requirements for the various Laboratories, Class rooms, Conference Hall and Faculty rooms for the forthcoming three academic years, as follows:

(Total estimated cost for procurement of furniture: Rs. 44 L):

| S.No. | Name of the Laboratory/ Conference Hall etc. | Approximate Cost Required towards procurement of furniture for various Laboratories, conference hall etc. (Rs. in Lakh) | Funds Requested under Budget Estimate (BE-2019-20) (Rs. in Lakh) | Funds Requested under Budget Estimate (BE-2020-21) (Rs. in Lakh) | Funds Requested under Budget Estimate (BE-2021-22) (Rs. In Lakh) |
|-------|--|---|--|--|--|
| 1. | Wooden Tables for the various Laboratories (Not exceeding 75 Nos.) 1. Process Control Laboratory (7 Nos.), 2. Control Systems Laboratory (7 Nos.) 3. Industrial Automation Laboratory (7 Nos.) 4. Transducers & Measurements Laboratory (7 Nos.) 5. Industrial Instrumentation Laboratory (7 Nos.) 6. Embedded Systems Laboratory (7 Nos.) 7. Electronics Laboratory (12 Nos.) 8. DCF-UG (7 Nos.) 9. DCF-PG (7 Nos.) 10. Electrical Machines Laboratory (7 Nos.) | Rs. 22.5 L | Rs. 7.5 L | Rs. 7.5 L | Rs. 7.5 L |

Dr. Prakash

| | | | | | |
|----|---|------------|-----------|-----------|-----------|
| 2. | Wooden Stools for the various Laboratories (Not Exceeding 275 Nos.): 1. Process Control Laboratory (25 Nos.), 2. Control Systems Laboratory (25 Nos.) 3. Industrial Automation Laboratory (25 Nos.) 4. Transducers & Measurements Laboratory (25 Nos.) 5. Industrial Instrumentation Laboratory (50 Nos.) 6. Embedded Systems Laboratory (25 Nos.) 7. Electronics Laboratory (25 Nos.) 8. DCF-UG (25 Nos.) 9. DCF-PG (25 Nos.) 10. Electrical Machines Laboratory (25 Nos.) | Rs. 10.0 L | Rs. 5.0 L | Rs. 5.0 L | Rs. 0.0 L |
| 3. | Chairs for the DCF-UG and DCF-PG (Not Exceeding 60 Nos.): Novella Chair for the Seminar Hall (30 Nos.) and Department Library (30 Nos.) (Model: NS07 SS) Note: DCF = Dept. Computing Facility | Rs. 1.0 L | Rs. 0.5 L | Rs. 0.5 L | Rs.0.0 L |
| 4. | Steel Senior Plain cupboard with 4-shelves making 5 compartments for Laboratories and faculty rooms in the new building (Not exceeding 50 Nos.) 1. Process Control Laboratory (3 Nos.), | Rs. 7.5 L | Rs. 0.0 L | Rs. 3.0 L | Rs. 4.5 L |

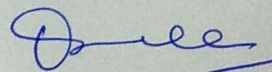


| | | | | |
|---|-----------------|-------------------|-------------------|-------------------|
| <p>2. Control Systems Laboratory (3 Nos.)</p> <p>3. Industrial Automation Laboratory (3 Nos.)</p> <p>4. Transducers & Measurements Laboratory (3 Nos.)</p> <p>5. Industrial Instrumentation Laboratory (3 Nos.)</p> <p>6. Embedded Systems Laboratory (3 Nos.)</p> <p>7. Electronics Laboratory (3 Nos.)</p> <p>8. DCF-UG (3 Nos.)</p> <p>9. DCF-PG (3 Nos.)</p> <p>10. Electrical Machines Laboratory (3 Nos.)</p> <p>11. Office Room (3 Nos.)</p> <p>12. Department Library (3 Nos.)</p> <p>Faculty members (14 Nos.)</p> | | | | |
| <p>5. Furniture for Staff rooms, Research Scholars room and Department Library – (Not Exceeding 50 Nos.)</p> <p>"S" type visitor chair with cushion seat and back with maroon colour cloth, Model: TSF 107 from M/s TANSI Furniture Works Chennai-32</p> | Rs. 3.0 L | Rs. 3.0 L | Rs. 0.0 L | Rs. 0.0 L |
| Total | Rs. 44 L | Rs. 16.0 L | Rs. 16.0 L | Rs. 12.0 L |

Dr. Prakash requested the DCC members to recommend the points presented in 6 and 7

Recommendations of the DCC members:

The members recommended the points presented under 6 and 7 above.



Establishment of new labs for UG/PG:

Dr. Prakash mentioned that it is proposed to introduce new labs in the department as follows:

UG:

- Industrial Data Communication Lab
- Calibration Lab

PG:

- Process Data Analytics Lab
- Advanced Industrial Data Communication Lab

Dr. Prakash mentioned that the requirements regarding the items of equipment and the budget estimate will be presented in the next DCC meeting. He requested the DCC members to recommend the sanction of infrastructure facilities to establish the above laboratories for the benefit of the UG and PG students.

Recommendation by the DCC members:

The members welcomed the introduction of state-of-art lab facilities for the UG/PG students and recommended the same. They agreed to peruse the detailed requirements along with the budget estimate during the next meeting.

9. Any other matter:

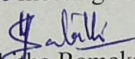
Hostel facility for PG students:

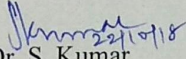
Dr. Prakash mentioned that all the eligible PG students are currently not provided hostel facility. He requested the DCC members to recommend hostel facility for all eligible PG students.

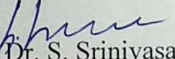
Recommendation by the DCC members:

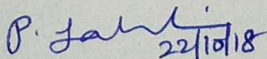
The members recommended the same.

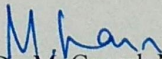
The meeting concluded by 4.30 PM. Dr. Sabitha Ramakrishnan proposed the vote of thanks.

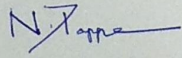

Dr. Sabitha Ramakrishnan
Asst. Prof, IE

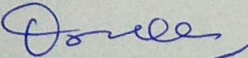

Dr. S. Kumar
Assoc. Prof, IE

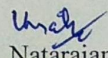

Dr. S. Srinivasan
Assoc. Prof, IE

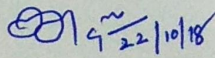

Dr. P. Lakshmi
Professor, EEE

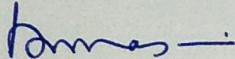

Dr. M. Ganesh Madhan
Prof, ECE


Dr. N. Pappa
Assoc. Professor, IE


Dr. J. Prakash
Professor, IE
HOD-IE


Dr. V. Natáraján
Prof. IE


Dr. T. Thyagarajan
Prof. IE


Dr. B. Umamaheswari
Chairperson, Faculty of EEE

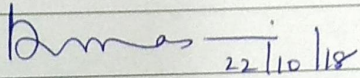
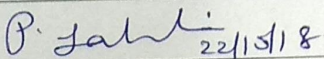
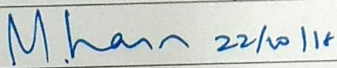
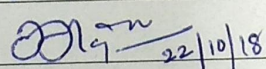
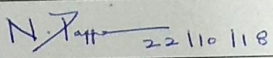
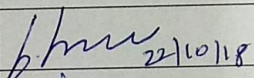
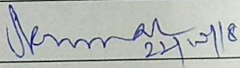
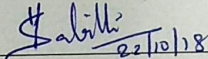
1.12

DEPARTMENT OF INSTRUMENTATION ENGINEERING
MIT CAMPUS:: CHENNAI 600 044.

ATTENDANCE SHEET FOR DEPARTMENTAL CONSULTATIVE COMMITTEE
MEETING

DATE: 22.10.2018

TIME: 03.00 PM.

| Sl.No. | NAME | SIGNATURE |
|--------|-------------------------|--|
| 1 | Dr..B.Umamaheswari |  22/10/18 |
| 2 | Dr.P.Lakshmi |  22/10/18 |
| 3 | Dr.M.Ganesh Madhan |  22/10/18 |
| 4 | Dr.T.Thyagarajan |  22/10/18 |
| 5 | Dr.V.Natarajan | |
| 6 | Dr.N.Pappa |  22/10/18 |
| 7 | Dr.D.Manamalli | |
| 8 | Dr.S.Srinivasan |  22/10/18 |
| 9 | Dr.S.Kumar |  22/10/18 |
| 10 | Dr.Sabitha Ramakrishnan |  22/10/18 |



ANNA UNIVERSITY CHENNAI
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS: CHENNAI – 600 044

Dr.J. PRAKASH
PROFESSOR & HEAD

16.10.2018

CIRCULAR

The Departmental Consultative Committee meeting is scheduled on 22.10.2018 at 03.00 PM to discuss the following agenda points:

- Reduction in the Students' Intake of B.E. (E & I) Programme from 120 to 60 from 2019 onwards. *Temporary suspension accepted.*
- Admission to PG Programme in Instrumentation Engineering (from 2019 onwards) – Certain changes to be made in the eligibility criteria.
- Filing up of the post of Assistant Professor.
- Academic Audit for the Internal Assessment Examinations.
- Report on the conduct of GIAN course on Practical PID Control.
- Any other matters.

May I request all the members of the DCC to attend the meeting.

Dr. J. Prakash
HEAD OF THE DEPARTMENT
DEPT. OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044

Copy to:

1. Dr..B.Umamaheswari, Chairperson, Dept. of Electrical and Electronics Engg., CEG Campus.
2. Dr.P.Lakshmi, Professor, Dept. of Electrical & Electronics Engg., CEG Campus.
3. Dr.M.Ganesh Madhan, Professor, Dept. of Electronics Engg., MIT Campus.
4. Dr.T.Thyagarajan, Professor, Dept. of Instrumentation Engg., MIT Campus.
5. Dr.V.Natarajan, Professor, Dept. of Instrumentation Engg., MIT Campus.
6. Dr.N.Pappa, Associate Professor, Dept. of Instrumentation Engg., MIT Campus.
7. Dr.D.Manamalli, Associate Professor, Dept. of Instrumentation Engg., MIT Campus.
8. Dr.S.Srinivasan, Associate Professor, Dept. of Instrumentation Engg., MIT Campus.
9. Dr.S.Kumar, Associate Professor, Dept. of Instrumentation Engg., MIT Campus.
10. Dr.Sabitha Ramakrishnan, Assistant Professor, Dept. of Instrumentation Engg., MIT Campus.



10/2

ANNA UNIVERSITY CHENNAI
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS: CHENNAI – 600 044

Dr.J. PRAKASH
PROFESSOR & HEAD

16.10.2018

CIRCULAR

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- Report on the conduct of GIAN course on Practical PID Control.
- Any other matters.

May I request all the members of the DCC to attend the meeting.

Dr. J. Prakash
HEAD OF THE DEPARTMENT
DEPT. OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044

Copy to:

1. Dr..B.Umamaheswari, Chairperson, Dept. of Electrical and Electronics Engg., CEG Campus.
2. Dr.P.Lakshmi, Professor, Dept. of Electrical & Electronics Engg., CEG Campus.
3. Dr.M.Ganesh Madhan, Professor, Dept. of Electronics Engg., MIT Campus.
4. Dr.T.Thyagarajan, Professor, Dept. of Instrumentation Engg., MIT Campus.
5. Dr.V.Natarajan, Professor, Dept. of Instrumentation Engg., MIT Campus.
6. Dr.N.Pappa, Associate Professor, Dept. of Instrumentation Engg., MIT Campus.
7. Dr.D.Manamalli, Associate Professor, Dept. of Instrumentation Engg., MIT Campus.
8. Dr.S.Srinivasan, Associate Professor, Dept. of Instrumentation Engg., MIT Campus.
9. Dr.S.Kumar, Associate Professor, Dept. of Instrumentation Engg., MIT Campus.
10. Dr.Sabitha Ramakrishnan, Assistant Professor, Dept. of Instrumentation Engg., MIT Campus.



ANNA UNIVERSITY CHENNAI
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS: CHENNAI - 600 044

Dr.J. PRAKASH
PROFESSOR & HEAD

31.07.2018

To

The Director
Academic Courses
Anna University
Chennai 600 025.

Through: The Chairman, Faculty of Electrical Engineering

Madam,

Sub: Department of Instrumentation Engineering - Panel of Members for the DCC - Reg.

Ref: Your letter no.3187/AU/DCC/2018, dated 20.07.2018.

-0-

With reference to the letter cited above, the following are the panel of members for the Departmental Consultative Committee for the academic year 2018-2021.

| Sl.No. | Category | Panel Members |
|--------|---|---|
| 1 | Chairman | Dr.B.Uma Maheswari |
| 2 | Senior Professor (2) and Professor (2) if no divisions (OR) Senior Professor (2) and all Heads of divisions | Dr.T.Thyagarajan Dr.V.Natarajan |
| 3 | Associate Professors | Dr.N.Pappa Dr.D.Manamalli Dr.S.Srinivasan Dr.S.Kumar |
| 4 | Assistant Professors | Dr.Sabitha Ramakrishnan |

for *NT* 3117118
PROFESSOR & HEAD
HEAD OF THE DEPARTMENT
DEPT.of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROME PET, CHENNAI-600 044



Off: 22357077 /73 /74
Fax / Dir.: 044-22352272

CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY
CHENNAI – 600 025

Dr. T.V.GEETHA
DIRECTOR

Lr. No. 3187/AU/DCC/2018

To
The Heads of Departments
CEG / ACT / MIT / SAP Campus
Anna University
Chennai – 600 025.



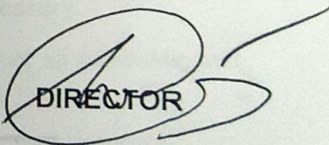
Sir / Madam,

Sub : Academic Courses – Reconstitution of Departmental Consultative Committee – Reg.
Ref : VC's approval, dated : 19.07.2018.

The Departmental Consultative Committee (DCC) has to be reconstituted during the academic year 2018 - 2021 and the tenure is for a period of 3 years. In this regard, I request you to send the panel of members for the DCC of your department **on or before 01.08.2018** through the Faculty Chairman to the Director, Academic Courses.

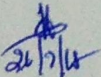
The guidelines for constituting the DCC is enclosed herewith for your reference and necessary action.

Yours faithfully,


DIRECTOR

Encl : As above

Copy to : 1. Faculty Chairman – Civil/Mechanical/Electrical/I & CE/ Technology/FAP/
S & H/Management
2. The Stock File – DAC.


26/7/18

Guidelines for the Departmental Consultative Committee (DCC)

- Nominating members for the Departmental Consultative Committee and forwarding to the Registrar for approval.

The constitution of Departmental Consultative Committee (DCC) is as follows:

| | | |
|---|---|-----------|
| HoD | - | Convener |
| Chairman of the Faculty | - | 1 |
| Senior Professors (2) and Professors (2) if no divisions | - | 2+2 |
| (OR) | | |
| Senior Professors (2) and all Heads of divisions | - | 2 + all * |
| Associate Professors | - | 2 ** |
| Assistant Professors | - | 1** |
| Professor / Associate Professor working in other department (to be nominated by Chairman of the Faculty) | - | 1 |
| Professor / Associate Professor (to be nominated by Director Academic Courses) | - | 1 |

* Applicable for departments having divisions.

** Increase in other category can be considered if sufficient number of staff are not available in that category.

Note:

1. If the composition of DCC falls below 9, other regular faculty members of the department can be inducted to the prescribed level.
2. If there is any change in DCC due to staff retirement or otherwise, it can be brought to the notice of Director, Academic Courses for reconstitution and approval at the beginning of the academic year.
3. The tenure of DCC membership is for a period of 3 years from the date of nomination.
4. Copy of the minutes of DCC should be forwarded to the Chairman of respective Faculty.
5. The DCC shall meet at least twice a semester or as many times as necessary.
6. The DCC shall discuss and recommend the plan of action in respect of all Academic and Administrative functions of the Department.
7. Copies of the minutes of the DCC shall be sent to the Vice – Chancellor for his perusal.
8. A minute book and attendance record on DCC meetings duly numbered shall be maintained by the HoDs concerned.
9. In respect of academic matters such as introduction of special electives, addition of new lab experiments, introduction of new UG / PG Programmes and other important academic matters shall be discussed in the DCC and the same may be forwarded to the Director, Academic Courses through Chairman of the respective Faculty for final approval by the Board of Studies and then by Academic Council of the University.

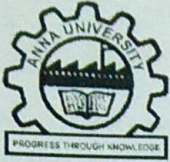
STRUCTURE OF DEPARTMENTAL CONSULTATIVE COMMITTEE (DCC)
UNIVERSITY DEPARTMENTS
ANNA UNIVERSITY, CHENNAI - 600 025

| S.NO | CATEGORY | NO. OF MEMBERS |
|----------------|--|----------------|
| FACULTY | | |
| 1. | Chairman | 1 |
| 2. | Senior Professors (2) and Professors (2) if no divisions TT/VN (OR) Senior Professors (2) and all Heads of divisions | 4 |
| | | 2 + all * |
| 3. | Associate Professors (NP + DM + SC + SK) | 2** |
| 4. | Assistant Professors SRK | 1** |
| 5. | Professor / Associate Professor working in other department (to be nominated by Chairman of the Faculty) | 1 |
| | Professor / Associate Professor (to be nominated by Director Academic Courses) | 1 |

* Applicable for departments having divisions.

** Increase in another category can be considered if sufficient numbers of staff are not available in the specified category.

DIRECTOR
ACADEMIC COURSES



DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T., ANNA UNIVERSITY, CHROMEPET, CHENNAI 600 044

Date: 25.02.2019

Minutes of the Third DCC Meeting for the Academic Year 2018-19, held in the Department of Instrumentation Engineering, MIT Campus, Anna University on 25.02.2019 at 3:00 PM.

The Third Departmental Consultative Committee Meeting for the academic year 2018-19 met on 25th February, 2019 at 3:00 PM in the KVN Seminar Hall, Dept. of Instrumentation Engg Dept, MIT campus, for discussing the following agenda points:

Agenda:

1. Approval of curriculum and syllabus of B.E (E&I) and M.E (IE) R2019.
2. Discussion regarding withdrawal of Part Time B.E (E&I) Programme from 2020 onwards
3. Filling up of non teaching staff vacancies (regular & temporary)
4. Plan for the next five years
5. Any other matter with the permission of the chair

The following members were present:

DCC Members:

- | | |
|-----------------------------|------------------------------|
| 1. Dr. P. Lakshmi | Professor – EEE, CEG |
| 2. Dr. M. Ganesh Madhan | Professor – Electronics, MIT |
| 3. Dr. N. Pappa | Professor – IE, MIT |
| 4. Dr. D. Manamalli | Professor – IE, MIT |
| 5. Dr. S. Srinivasan | Professor – IE, MIT |
| 6. Dr. S. Kumar | Assoc. Prof. – IE, MIT |
| 7. Dr. Sabitha Ramakrishnan | Assoc. Prof. – IE, MIT |

Special invitees: R2019 Curriculum & Syllabus coordinators:

- | | |
|-------------------------------------|------------------------|
| 1. Dr. D. Vasanthi (UG coordinator) | Assoc. Prof. – IE, MIT |
| 2. Dr. C. Shanthi (PG coordinator) | Asst. Prof. – IE, MIT |
| 3. Dr. S. Sutha (PG Co coordinator) | Asst. Prof. – IE, MIT |

Dr. N. Pappa, Professor & Head, IE welcomed the members to the meeting. She informed that the syndicate has approved the reduction in intake from 120 to 60 for B.E (E&I) for the academic year 2019-20. She thanked The Vice Chancellor, The Registrar, The Dean (MIT), The Chairman (Faculty of Electrical Engineering), the DCC members and all the faculty members for their support and recommendations for temporary suspension of the additional intake of 60 (SS batch). She then discussed the following agenda points with the members.

1. Approval of Curriculum and Syllabus of B.E (E&I) R2019:

Dr.N Pappa explained the procedure followed for framing the R2019 curriculum and syllabi, to the members:

- Four subcommittees were formed for UG & PG based in the four relevant domains – Control and Automation, Instrumentation, Electrical & Electronics and Computer & Communication.
- Series of internal meetings were held by the Subcommittee coordinators to draft the syllabus for all the courses in their domain.
- UG and PG subcommittee meetings with external experts and industry were held on 22.12.18 (Saturday) and 9.1.2019 (Wednesday)
- The coordinators, Dr. D. Vasanthi and Dr. C. Shanthi compiled and consolidated the curricula and syllabi for UG and PG respectively.

Highlights of R 2019 UG are as follows:-

1. As per the requirements of new norms of NBA, three PSOs are formulated.
2. Two 6 credit (Theory cum Laboratory) courses namely Embedded System Design and Industrial Automation are introduced with the approval of subcommittee members, experts from industry and R&D labs.
3. Minimum six COs are formulated for every theory and laboratory courses
4. Professional core course namely Introduction to Industrial Process, Measurement & Control and Professional Elective Courses from other department of MIT relevant to Electronics and Instrumentation Engineering are added as professional electives as Instrumentation program being interdisciplinary in nature.
5. Three Professional Elective Courses such as Instrumentation in Petrochemical Industry, Thermal power plant Instrumentation and Unit Operations and Control are combined into single core course namely Introduction to Industrial Process, Measurement & Control.

Highlights of R 2019 PG are as follows:-

1. As per the requirements of new norms of NBA, 6 POs and three PSOs are formulated.
2. Two 6 credit (Theory cum Laboratory) courses namely Embedded System Design and Industrial Automation are introduced with the approval of subcommittee members, experts from industry and R&D labs.
3. Minimum six COs are formulated for every theory and laboratory courses.
4. Professional core Laboratory namely Embedded system and IOT and Professional Elective Courses from other Department of MIT relevant to Instrumentation Engineering are added as Professional electives as Instrumentation program being interdisciplinary in nature.
5. New Professional Elective Courses such as Modelling and simulation, Process Data Analytics, cyber security for industrial automation, cyber physical system,IIOT etc are newly introduced

Dr. N.Pappa presented the POs, PSOs and PEOs to the expert members and all the points were justified and clarified to the satisfaction of the expert members. She then presented the curricula and syllabi for UG and PG and requested the DCC members for their remarks and recommendations.

Remarks of the DCC members:

- (i) Suggested to offer Biomedical Instrumentation as a Core courses
- (ii) Suggested to change the title of some of theory courses as follows:

| Sl.No. | Title of the course presented by HOD | Suggested title by DCC members |
|--------|--------------------------------------|--------------------------------------|
| 1 | Image and video Analytics | Image and video Processing |
| 2 | Fundamentals of Nano Science & MEMS | Nano Science and Technology |
| 3 | Modeling and Simulation | Mathematical Modeling and Simulation |

- (iii) Suggested to introduce topics relevant to Electric Circuit analysis in the second semester as part of Basics of Electrical Engineering.

2. Discussion regarding withdrawal of B.E (E&I) Part Time Programme from 2020 onwards

Dr. N. Pappa mentioned that it is proposed to request for withdrawal of the B.E (E&I) Part Time Programme from 2020 onwards. The reasons for this proposal are:

- Intake statistics for the past three years is very poor (less than 20 on an average)
- Very poor intake in the current year (Only 11 students originally admitted)
- It is not economical to run a part time program with this poor intake and nearly 20% .of students leave the program in due course due to various reasons.
- For this poor intake, it is difficult to keep the department open in the evening till 9.15PM.

Remarks of the DCC members:

The DCC members agreed with the proposal and offered their recommendations for withdrawal of B.E (E&I) Part Time Programme from 2020 onwards

3. Filling up of non teaching staff vacancies (regular & temporary)

Five regular vacancies under Technical assistant (Mr Karuppiah got retired and tenure with consolidated pay got completed during Nov 2018, Mr Rafig got transferred to Admin in CEG campus and 3 already existing vacancies) and three temporary vacancies should be filled.

13 (UG& PG) are functioning in the new building of Instrumentation Engineering Department as per the requirement of R-2015. Hence to conduct the regular Laboratory and maintain the equipments in the various laboratories technical staffs are required.

Skilled Technicians are required to get trained for the value added laboratories namely Electrical Machines Laboratory (with Modernized Machines) and SIEMENS PLC and Process Instrumentation laboratory.

Recommendation by the DCC members:

The members recommended the same.

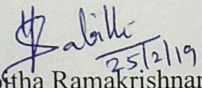
2. Plan for the next five years

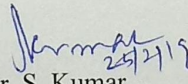
Plans for the next five years prepared by Dr D.Manamalli in consultation with the faculty members was are presented by HOD Dr.N.Pappa

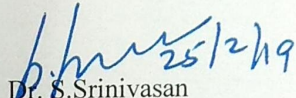
Recommendation by the DCC members:

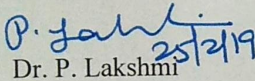
The members recommended the same.

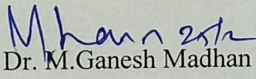
The meeting concluded by 4.30 PM. Dr. Sabitha Ramakrishnan proposed the vote of thanks.

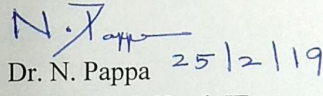

Dr. Sabitha Ramakrishnan
Assoc. Prof, IE


Dr. S. Kumar
Assoc. Prof, IE


Dr. S. Srinivasan
Professor, IE


Dr. P. Lakshmi
Professor, EEE


Dr. M. Ganesh Madhan
Professor, ECE


Dr. N. Pappa
Professor & Head, IE

Minutes prepared by Dr.Sabitha Ramakrishnan

DEPARTMENT OF INSTRUMENTATION ENGINEERING
MIT CAMPUS:: CHENNAI 600 044.

ATTENDANCE SHEET

DEPARTMENTAL CONSULTATIVE COMMITTEE MEETING

DATE: 25.02.2019

TIME: 03.00 P.M.

| Sl. No. | Name of the Faculty | Signature |
|---------|--------------------------|----------------------------|
| 1. | Dr. P. LAKSHMI, Prof | P. Jadhav 25/2/19 |
| 2. | Dr. Sabitha Ramakrishnan | Sabitha 25/2/19 |
| 3. | Dr. M. HARISH MADHAN | M. Harish 25/2/19 |
| 4. | Dr. D. Manamalli | D. Manamalli 25/2/2019. |
| 5. | Dr. S. KUMAR | S. Kumar 25/2/19 |
| 6. | Dr. S. Srinivasan | S. Srinivasan 25/2/19 |
| 7. | Dr. C. Shanthi | C. Shanthi 25/2/19 |
| 8. | Dr. S. Sultha | S. Sultha 25/2/19 |
| 9. | Dr. D. Vasanthi | D. Vasanthi 25/2/19 |
| 10. | Dr. N. PAPPA | N. Pappa 25/2/19 |
| | | |
| | | |

N. Pappa
25/2/19



ANNA UNIVERSITY
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T.CAMPUS :: CHENNAI 600 044

Dr.N.PAPPA
PROFESSOR & HEAD

Date: 16.02.2019

CIRCULAR

The Departmental Consultative Committee meeting is scheduled on 25.02.2019 at 03.00PM to discuss the following agenda points:

- Approval of curriculum and syllabus of B.E (E&I) - R2019.
- Approval of curriculum and syllabus of M.E (IE) - R2019.
- Discussion regarding withdrawal of Part time B.E. (E&I) Program from 2020 onwards.
- Filling up of Non teaching Staff (Regular and Temporary).
- Plan for next five years.
- Any other matters.

N.P. off 16/2/19

PROFESSOR & HEAD
HEAD OF THE DEPARTMENT
DEPT. of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044.

Copy to:

1. Dr. B. Umamaheswari, Chairperson, Dept. of Electrical and Electronics Engg., CEG Campus.
2. Dr. P. Lakshmi, Professor, Dept. of Electrical and Electronics Engg., CEG Campus.
3. Dr.M. Ganesh Madhan, Professor, Dept. of Electronics Engg., MIT Campus.
4. Dr.T.Thyagarajan, Professor, Dept. of Instrumentation Engg., MIT Campus.
5. Dr.V. Natarajan, Professor, Dept. of Instrumentation Engg., MIT Campus.
6. Dr.D. Manamalli, Professor, Dept. of Instrumentation Engg., MIT Campus.
7. Dr.S.Srinivasan, Professor, Dept. of Instrumentation Engg., MIT Campus.
8. Dr.S.Kumar, Professor, Dept. of Instrumentation Engg., MIT Campus.
9. Dr.Sabitha Ramakrishnan, Associate Professor, Dept. of Instrumentation Engg., MIT Campus.



ANNA UNIVERSITY
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T.CAMPUS :: CHENNAI 600 044

Dr.D.MANAMALLI
PROFESSOR & HEAD(i/c)

Date: 17.09.2019

CIRCULAR

The Departmental Consultative Committee meeting is scheduled on 19.09.2019 at 3.00PM to discuss the following agenda points:

- Approval of specialization for Professor, Associate Professor and Assistant Professor for the forthcoming recruitment.
- Reduction in the students' intake of B.E. (E&I) Programme from 120 to 60 from 2020 onwards.
- Withdrawal of Part-time B.E. (E&I) Programme from 2020 onwards.
- Plan for next five years.
- Any other matters.

PROFESSOR & HEAD(i/c)

HEAD OF THE DEPARTMENT
DEPT. of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044.

Copy to:

1. Dr. S.Usa, Chairperson, Dept. of Electrical and Electronics Engg., CEG Campus.
2. Dr. P. Lakshmi, Professor, Dept. of Electrical and Electronics Engg., CEG Campus.
3. Dr.M. Ganesh Madhan, Professor, Dept. of Electronics Engg., MIT Campus.
4. Dr.T.Thyagarajan, Professor, Dept. of Instrumentation Engg., MIT Campus.
5. Dr.V. Natarajan, Professor, Dept. of Instrumentation Engg., MIT Campus.
6. Dr.D. Manamalli, Professor, Dept. of Instrumentation Engg., MIT Campus.
7. Dr.S.Srinivasan, Professor, Dept. of Instrumentation Engg., MIT Campus.
8. Dr.S.Kumar, Professor, Dept. of Instrumentation Engg., MIT Campus.
9. Dr.Sabitha Ramakrishnan, Associate Professor, Dept. of Instrumentation Engg., MIT Campus.



DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T., ANNA UNIVERSITY, CHROMEPET, CHENNAI 600 044

Date: 19.09.2019

Minutes of the First DCC Meeting for the Academic Year 2019-20, held in the Department of Instrumentation Engineering, MIT Campus, Anna University on 19.09.2019 at 3:00 PM.

The First Departmental Consultative Committee Meeting for the academic year 2019-20 met on 19th September 2019 at 3:00 PM in the Department Library, Dept. of Instrumentation Engg., MIT campus, for discussing the following agenda points:

Agenda:

1. Approval of specialization for Professor, Associate Professor and Assistant Professor for the forthcoming recruitment
2. Reduction in the students' intake of B.E. (E&I) Programme from 120 to 60 from 2020 onwards
3. Withdrawal of Part-time B.E. (E&I) Programme from 2020 onwards
4. Any other matter with the permission of the chair

The following members were present:

DCC Members:

- | | |
|-----------------------------|---------------------------------|
| 1. Dr. S. Usa | Chairperson, Faculty of EEE, AU |
| 2. Dr. P. Lakshmi | Professor – EEE, CEG |
| 3. Dr. M. Ganesh Madhan | Professor – Electronics, MIT |
| 4. Dr. D. Manamalli | Professor and Head, IE - MIT |
| 5. Dr. S. Srinivasan | Professor, IE - MIT |
| 6. Dr. S. Kumar | Assoc. Prof., IE - MIT |
| 7. Dr. Sabitha Ramakrishnan | Assoc. Prof., IE – MIT |

Special Invitees:

- | | |
|-----------------------|-----------------------------------|
| 1. Dr. T. Thyagarajan | Professor-IE and Dean-MIT |
| 2. Dr. J. Prakash | Professor-IE and Former Head, IE. |

Dr. D. Manamalli, Professor & Head, IE welcomed the members to the meeting. She discussed the following agenda points with the members.

1. **Approval of specialization for Professor, Associate Professor and Assistant Professor for the forthcoming recruitment:**

Dr. Manamalli presented the eligibility criteria prepared by the department for the forthcoming recruitment process, to the panel members and requested the DCC members to offer their inputs.

Recommendations of the DCC:

- For PG qualification, “Process Control and Instrumentation” branch may be included
- For PhD qualification, “Allied areas of Electronics, Instrumentation and Control Engineering” may be included

As per the recommendations of the DCC members, the eligibility criteria for the vacancies in the post of AP, Assoc. Professor and Professor for the Dept. of Instrumentation Engg, MIT Campus are given below:

RECOMMENDATION OF DEPARTMENT CONSULTATIVE COMMITTEE:

DEPARTMENT OF INSTRUMENTATION ENGINEERING

| Sl. No | Name of the Post | Total Vacancy | R | SS | Roster | UG Degree (B.E./B.Tech. in the relevant branch of Engineering / Technology) | PG Degree (M.E./M.Tech. in the relevant branch of Engineering Technology) | Ph.D in the relevant area of Specialization |
|--|---------------------|---------------|---|----|--------------|--|---|---|
| 1. | Assistant Professor | 1 | 1 | 0 | SC(A)(W)(DW) | Electronics and Instrumentation | | |
| 2. | Associate Professor | 1 | 0 | 1 | MBC/DNC | Instrumentation and Control Instrument Technology Instrumentation Engineering | Instrumentation* Control & Instrumentation Electronics and Instrumentation | Process Control Measurements and Instrumentation |
| 3. | Professor | 1 | 0 | 1 | SC(A)(W)(DW) | Electronics and Instrumentation Instrumentation and Control Instrument Technology Instrumentation Engineering Electrical & Electronics* | Control Systems* Measurements and Instrumentation* Process Control and Instrumentation* | Allied areas in Electronics, Instrumentation and Control Engineering. |
| *To be approved in the Syndicate. | | | | | | | | |
| R – Regular Posts, SS-Self Supporting Posts. | | | | | | | | |
| W- Women, A-Arunthathiyar, DW-Destitute Widow. | | | | | | | | |

2. Reduction in the students' intake of B.E. (E&I) Programme from 120 to 60 from 2020 onwards

Dr. Manamalli informed that VC approval has been obtained for Reduction in the students' intake of B.E. (E&I) Programme from 120 to 60 and the intake has been reduced to 60 for B.E (E&I). However the approval has been given ONLY for the academic year 2019-20. She requested the DCC members to give their recommendations for reducing the intake from 120 to 60 permanently.

Recommendations of the DCC:

The DCC recommended that the intake for B.E(E&I) may be permanently reduced to 60.

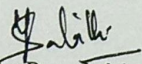
3. Withdrawal of Part-time B.E. (E&I) Programme from 2020 onwards

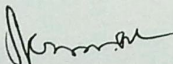
Dr. Manamalli presented to the DCC members, the department's proposal to withdraw B.E (E&I) Part Time Programme from 2020 onwards. She requested the DCC members to offer their remarks and recommendations.

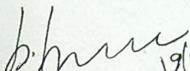
Recommendations of the DCC:

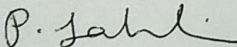
The DCC recommended the same.

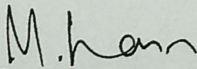
The meeting concluded by 3.45 PM. Dr. Sabitha Ramakrishnan proposed the vote of thanks.

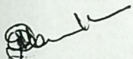

Dr. Sabitha Ramakrishnan
Assoc. prof, IE

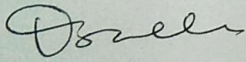

Dr. S. Kumar
Assoc. Prof. IE

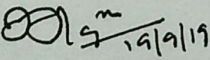

Dr. S. Srinivasan
Professor, IE
19/9/19

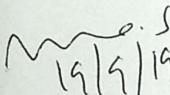

Dr. P. Lakshmi
Professor, EEE


Dr. M. Ganesh Madhan
Professor, ECE


Dr. D. Manamalli
Professor & Head, IE (UIC)


Dr. J. Prakash
Professor, IE
19/9/19


Dr. T. Thyagarajan
Professor, IE & Dean, MIT
19/9/19


Dr. S. Usa
Chairperson,
Faculty of EEE, AU
19/9/19



10/2

ANNA UNIVERSITY
DEPARTMENT OF INSTRUMENTATION ENGINEERING
MIT CAMPUS :: CHENNAI-600 044

Dr.S.SRINIVASAN
Professor & Head i/c.

20.01.2020

To

The Director
Academic Courses
Anna University
Chennai 600 025.

Sir,

Sub: MIT- Department of Instrumentation Engineering - Revised Departmental
Consultative Committee Members - Intimation - Reg.

-0-

I am herewith attaching the list of revised Departmental Consultative Committee
Members pertaining to the Department of Instrumentation Engineering, MIT Campus.
This is for your kind information.

p. h. m. 20/1/20 2/c
PROFESSOR & HEAD

HEAD OF THE DEPARTMENT
DEPT. of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044.

ANNA UNIVERSITY: CHENNAI - 25

DEPARTMENTAL CONSULTATIVE COMMITTEE 2018 - 2021

DEPARTMENT OF INSTRUMENTATION ENGINEERING

| SL.NO. | NAME DESIGNATION AND ADDRESS |
|---|--|
| I. THE HEAD OF THE DEPARTMENT (Convener) | |
| 1. | Dr. N. Pappa Professor and Head Department of Instrumentation Engineering MIT Campus, Anna University Chennai – 44. |
| II. CHAIRPERSON OF THE FACULTY | |
| 2. | Dr. S.Usa Chairperson Faculty of Electrical Engineering CEG Campus, Anna University, Chennai – 25. |
| III. FACULTY MEMBERS FROM THE DEPARTMENT | |
| 3. | Dr. T. Thyagarajan Professor Department of Instrumentation Engineering, MIT Campus, Anna University Chennai – 44. |
| 4. | Dr. J. Prakash Professor Department of Instrumentation Engineering, MIT Campus, Anna University Chennai – 44. |
| 5. | Dr. D. Manamalli Professor Department of Instrumentation Engineering, MIT Campus, Anna University Chennai – 44. |
| 6. | Dr. K. Latha Professor Department of Instrumentation Engineering, MIT Campus, Anna University Chennai – 44. |
| 7. | Dr. S. Kumar Associate Professor Department of Instrumentation Engineering, MIT Campus, Anna University Chennai – 44. |

b. h. m.
20/1/2021

| | |
|--|---|
| 8. | Dr. D. Vasanthi Associate Professor Department of Instrumentation Engineering, MIT Campus, Anna University Chennai – 44. |
| 9. | Dr. S.Sutha Assistant Professor Department of Instrumentation Engineering, MIT Campus, Anna University Chennai – 44. |
| IV. FACULTY MEMBER FROM OTHER DEPARTMENT (Nominated by Chairperson of the Faculty) | |
| 10. | Dr. P. Lakshmi Professor Department of Electrical and Electronics Engineering CEG Campus, Anna University Chennai – 25. |
| V. FACULTY MEMBER (Nominated by the Director, Centre for Academic Courses) | |
| 11. | Dr. M.Ganesh Madhan Professor Department of Electronics Engineering, MIT Campus, Anna University Chennai – 44. |

b. j. m.
20/1/2021

HEAD OF THE DEPARTMENT
DEPT. OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044.

REVISED

ANNA UNIVERSITY: CHENNAI - 25

DEPARTMENTAL CONSULTATIVE COMMITTEE 2018 - 2021

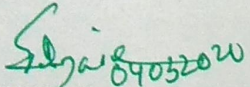
DEPARTMENT OF INSTRUMENTATION ENGINEERING

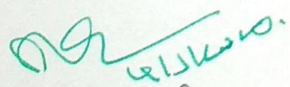
| SL.NO. | NAME DESIGNATION AND ADDRESS |
|---|--|
| I. THE HEAD OF THE DEPARTMENT (Convener) | |
| 1. | Dr. N. Pappa Professor and Head Department of Instrumentation Engineering, MIT Campus, Anna University Chennai - 44. |
| II. CHAIRPERSON OF THE FACULTY | |
| 2. | Dr.S.Usa Chairperson Faculty of Electrical Engineering CEG Campus, Anna University, Chennai - 25. 9444952226 |
| III. FACULTY MEMBERS FROM THE DEPARTMENT | |
| 3. | Dr.J.Prakash Professor Department of Instrumentation Engineering MIT Campus, Anna University Chennai - 44. |
| 4. | Dr.K.Latha Professor Department of Instrumentation Engineering MIT Campus, Anna University Chennai - 44. |
| 5. | Dr. S. Kumar Associate Professor Department of Instrumentation Engineering, MIT Campus, Anna University Chennai - 44. |
| 6. | Dr. S.Sutha Assistant Professor Department of Instrumentation Engineering, MIT Campus, Anna University Chennai - 44. |

S. Sutha
04032020

IV. FACULTY MEMBER FROM OTHER DEPARTMENT
(Nominated by Chairperson of the Faculty)

| | |
|----|--|
| 7. | Dr. P. Lakshmi Professor Department of Electrical and Electronics Engineering CEG Campus, Anna University Chennai – 25. |
|----|--|


DIRECTOR (AC)


REGISTRAR ^{3/}₃





ANNA UNIVERSITY

SARDAR PATEL ROAD, CHENNAI - 600 025.
www.annauniv.edu

Phone : +91 44 2235 2161
 +91 44 2235 7003
Office : +91 44 2235 7004
Fax : +91 44 2235 1956
E-Mail : registrar@annauniv.edu

REGISTRAR

Letter No.230/CAC/DCC/2020

Date:04.03.2020

To

The Head

Department of Instrumentation Engineering
MIT Campus, Anna University,
Chennai - 600 044.

Sir,

Sub: Centre for Academic Courses - Anna University – Revision of Departmental Consultative Committee - Intimation - Regarding.

Ref : Letter received from Department of Instrumentation Engineering, MIT Campus, dated.20.01.2020.

This is to inform you that the Vice Chancellor has approved the revision of the Departmental Consultative Committee (DCC) of your department as requested by you for the period 2018 - 2021.

The approved list of DCC members of your department is enclosed herewith.

The members of the DCC may be informed about their membership immediately.

A copy of the minutes of the meeting may be sent to the Director, Centre for Academic Courses, Anna University.

Yours faithfully,

REGISTRAR

Copy to:

1. The Chairperson, Faculty of Electrical Engineering, Anna University, Chennai - 600 025.
2. The PA to Registrar, Anna University, Chennai -25.
3. The PS to Vice-Chancellor, Anna University, Chennai -25.
4. The Director, Centre for Academic Courses, Anna University, Chennai -25.
5. The Stock File - CAC.



CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY
CHENNAI - 600 025



DCC file
N.T.
Off: 22357077 / 73 16/11/2021
22357074
Fax / Dir : 22352278

Dr. S. HOSIMIN THILAGAR
DIRECTOR

Letter No. 4452 /AU/CAC/2021

10.11.2021

To
The Head
Department of Instrumentation Engineering
MIT Campus
Anna University
Chennai - 600 044.

Madam,

Sub : AU - CAC - Departmental Consultative Committee - Revised format - Reg.
Ref : Vice - Chancellor approval dated 29.09.2020.

With reference to the letter cited above, the Departmental Consultative Committee (DCC) has to be reconstituted during the academic year 2021 - 2024. In this regard, I request you to send the panel of members for the DCC of your department through the Faculty Chairperson to the Director, Centre for Academic Courses.

As per the direction of the competent authority, the revised format for the Departmental Consultative Committee is enclosed herewith for your reference.

Yours faithfully,

[Handwritten signature]
10/11/2021

DIRECTOR

Encl: As above

Copy to:

1. The Stock File

[Handwritten signature]
T. COIN

STRUCTURE OF DEPARTMENTAL CONSULTATIVE COMMITTEE (DCC)
ANNA UNIVERSITY: CHENNAI -25
2021 - 2024
DEPARTMENT OF INSTRUMENTATION ENGINEERING

| CATEGORY | NAME AND DESIGNATION | ADDRESS |
|--------------------------------------|----------------------|---------|
| 1. HEAD OF THE DEPARTMENT | | |
| | | |
| 2. CHAIRPERSON OF THE FACULTY | | |
| | | |
| 3. PROFESSOR (1) | | |
| | | |
| 4. ASSOCIATE PROFESSOR (1) | | |
| | | |
| 5. ASSISTANT PROFESSOR (1) | | |
| | | |

HEAD OF THE DEPARTMENT

6. PROFESSOR / ASSOCIATE PROFESSOR WORKING IN OTHER DEPARTMENT
(TO BE NOMINATED BY CHAIRPERSON OF THE FACULTY)

| | | |
|--|--|--|
| | | |
|--|--|--|

7. PROFESSOR / ASSOCIATE PROFESSOR
(TO BE NOMINATED BY DIRECTOR ACADEMIC COURSES)

| | | |
|--|--|--|
| | | |
|--|--|--|

CHAIRPERSON

DIRECTOR (CAC)



REGISTRAR

ANNA UNIVERSITY

SARDAR PATEL ROAD, CHENNAI - 600 025.

www.annauniv.edu

Phone : +91 44 2235 2161

+91 44 2235 7003

Office : +91 44 2235 7004

Fax : +91 44 2235 1956

E-Mail : registrar@annauniv.edu

DCC file
scan and send
to all members

N. J. J. J.
20/12/2021

Letter No.4665/CAC/DCC/2021

Date: 11.12.2021

To

The Head

Department of Instrumentation Engineering

MIT Campus, Anna University,

Chennai - 600 044.

Madam,

Sub: A.U. - Centre for Academic Courses - Departmental Consultative Committee
- Reconstitution - Intimation - Regarding.

Ref: Vice Chancellor's approval dated: 04.12.2021.

This is to inform you that the Vice Chancellor has approved the Reconstitution of the Departmental Consultative Committee (DCC) of your department for the period 2021 - 2024.

The approved list of DCC members of your department is enclosed herewith.

The members of the DCC may be informed about their membership immediately.

A copy of the minutes of the meeting should be sent to the Director, Centre for Academic Courses, Anna University.

Yours faithfully,

REGISTRAR i/c

Copy to:

1. The Chairperson, Faculty of Electrical Engineering, Anna University, Chennai - 25.
2. The PA to Registrar, Anna University.
3. The PS to Vice-Chancellor, Anna University.
4. The Director, Centre for Academic Courses, Anna University.
5. The Stock File - CAC.

ANNA UNIVERSITY
DEPARTMENTAL CONSULTATIVE COMMITTEE 2021 – 2024
DEPARTMENT OF INSTRUMENTATION ENGINEERING

| SL. NO. | NAME, DESIGNATION AND ADDRESS |
|---------|--|
| I. | HEAD OF THE DEPARTMENT (Convener) |
| 1. | Dr. N. Pappa Professor and Head Department of Instrumentation Engineering MIT Campus Anna University, Chennai - 44. |
| II. | CHAIRPERSON OF THE FACULTY |
| 2. | Dr.S.Usa The Chairperson Faculty of Electrical Engineering CEG Campus Anna University, Chennai - 25. |
| III. | FACULTY MEMBERS FROM THE DEPARTMENT |
| 3. | Dr.S.Srinivasan Professor Department of Instrumentation Engineering, MIT Campus Anna University, Chennai - 44. |
| 4. | Dr.D.Vasanthi Associate Professor Department of Instrumentation Engineering, MIT Campus Anna University, Chennai - 44. |
| 5. | Dr.M.Mythily Assistant Professor (Sr.G.) Department of Instrumentation Engineering, MIT Campus Anna University, Chennai - 44. |
| IV. | FACULTY MEMBER FROM OTHER DEPARTMENT (Nominated by Chairperson of the Faculty) |
| 6. | Dr.K.Udhyakumar Professor Department of Electrical and Electronics Engineering CEG Campus Anna University, Chennai – 25. |

| | |
|--|---|
| V. FACULTY MEMBER (Nominated by the Director, Centre for Academic Courses) | |
| 7. | Dr.V.Senthilkumar Professor Department of Electrical and Electronics Engineering CEG Campus Anna University, Chennai – 25. |

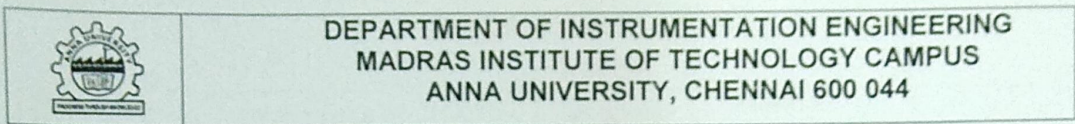
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DIRECTOR (AC)

Handwritten initials

DCC file

N7
7/2/2022



Minutes of the DCC meeting held through online mode 'Microsoft Teams' on
31.01.2022 at 1.00PM

The Departmental Consultative Committee Members met on 31st January, 2022 at 1.00 PM through online mode 'Microsoft Teams' to discuss the following agenda point:

- Approval for the Open elective subjects to be offered for the 6th and 7th semester students of other Department.

The following DCC members were present for the meeting:

| Name | Designation |
|-----------------------------|---|
| Dr.Kumudini <i>Dem R.P.</i> | Chairman (i/c), Faculty of Electrical Engineering, AU |
| Dr.K.Udhyakumar | Professor, Dept. of EEE, AU |
| Dr.V.Senthilkumar | Professor, Dept. of EEE, AU |
| Dr. N.Pappa | Professor & Head |
| Dr.S.Srinivasan | Professor, IE |
| Dr. D.Vasanthi | Associate Professor, IE |
| Dr. M.Mythily | Assistant Professor (Sr.G.), IE |

Dr.N.Pappa, Professor & Head, IE welcomed the members and discussed the agenda points with the members.

Approval for the Open elective subjects to be offered for the 6th and 7th semester students of other Department

The HoD presented the list and the detailed syllabus of the following 4 open elective courses to be offered for the 6th and 7th semester students of other Department for the R2019 regulation for the approval of DCC. The courses are as follows:

LIST OF OPEN ELECTIVES

R2019

| SL. NO. | COURSE CODE | COURSE TITLE | CATEGORY | CONTACT PERIODS | L | T | P | C |
|---|-------------|--|----------|-----------------|---|---|---|---|
| Faculty of Electrical Engineering | | | | | | | | |
| Department of Instrumentation Engineering | | | | | | | | |
| B.E. Electronics and Instrumentation Engineering | | | | | | | | |
| 1. | | Introduction to Industrial Instrumentation and Control | OE | 3 | 3 | 0 | 0 | 3 |
| 2. | | Introduction to Industrial Data Communication | OE | 3 | 3 | 0 | 0 | 3 |
| 3. | | Industrial Automation Systems | OE | 3 | 3 | 0 | 0 | 3 |
| 4. | | Introduction to Programmable Logic Controller | OE | 3 | 3 | 0 | 0 | 3 |

HoD informed that out of 4 courses listed, based on the request from other departments appropriate courses can be offered in 6th and 7th semesters.

The DCC members approved the title and content of the four open elective courses proposed by the Dept. of Instrumentation Engineering, MIT. Having discussed the agenda point mentioned herein, HoD thanked the DCC members and concluded the meeting.

M.H.
31/1/2022

Dr.M.Mythily
Asst.Prof.(Sr.G)IE

Dr.D.V.
31/1/22

Dr.D.Vasanthi
Asso.Prof.IE

S.S.
31/1/22

Dr. S.Srinivasan
Prof.IE

N.P.
31/01/2022

Dr. N.Pappa
Prof.& Head, IE

V.S.
31/1/22

Dr.V.Senthilkumar
Prof.EEE

U.K.
31/01/2022

Dr.K.Udhyakumar
Prof.EEE

R.P. Kumudini Dew
31/1/22

Dr.Kumudini Dew R.P.
Prof. EEE & Faculty Chairman (i/c)

Presenting...

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Dr. D.Vasanthi



mythilym



Pappa N

Participants

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Organizer

Attendees (4)

DD
Dr. D.Vasanthi

Dr. K. UDHAYAKUN

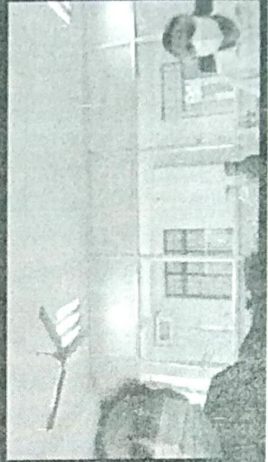
Dr. V. SENTHIL KUN

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mythilym

Suggestions (2)

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Kumudini Devi R P



LIST OF OPEN ELECTIVES

R2019

| SL. NO. | COURSE CODE | COURSE TITLE | CATEGORY | CONTACT PERIODS | L | T | P | C |
|---|-------------|--|----------|-----------------|---|---|---|---|
| Faculty of Electrical Engineering | | | | | | | | |
| Department of Instrumentation Engineering | | | | | | | | |
| B.E. Electronics and Instrumentation Engineering | | | | | | | | |
| 1. | | Introduction to Industrial Instrumentation and Control | OE | 3 | 3 | 0 | 0 | 3 |
| 2. | | Introduction to Industrial Data Communication | OE | 3 | 3 | 0 | 0 | 3 |
| 3. | | Industrial Automation Systems | OE | 3 | 3 | 0 | 0 | 3 |
| 4. | | Introduction to Programmable Logic Controller | OE | 3 | 3 | 0 | 0 | 3 |

N. J.

**HEAD OF THE DEPARTMENT
DEPT. OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044**

INTRODUCTION TO INDUSTRIAL INSTRUMENTATION AND CONTROL

LT PC
3 0 0 3

TEXT BOOKS:
1 Doebelin, E.
2 Bequ...

OBJECTIVES

- To give an adequate knowledge about various techniques used for various parameters of measurement in Industries.
- To provide exposure to four important process variables namely level, pressure, flow and temperature.
- To understand, analyze and design various measurement schemes that meet the desired specifications and requirements of real time processes
- To acquire knowledge about the principles of conventional continuous controllers namely ON/OFF and PID controller.
- To get an overview of advanced control schemes used for industrial applications.

UNIT I LEVEL AND PRESSURE MEASUREMENT 9

Level Measurements: Float gauge – Displacer – D/P method – Load cell – Capacitive sensor– Ultrasonic sensor. Pressure Measurements: Manometer – Bourdon tube – Capacitive type pressure gauge – Piezo resistive pressure sensor – McLeod gauge – Thermal conductivity gauge.

UNIT II TEMPERATURE MEASUREMENT 9

Thermometers – RTD characteristics and signal conditioning – Thermistors – Thermocouples: Laws – signal conditioning – cold junction compensation. Radiation and optical pyrometers.

UNIT III FLOW MEASUREMENT 9

Orifice plate – venturi tube – Turbine flow meter – Rotameter – Coriolis mass flow meter – Thermal mass flow meter - Electromagnetic flow meter – Ultrasonic flow meter – Introduction to Calibration methods.

UNIT IV PROCESS CONTROL 9

Need for process control – Continuous and Batch processes – servo and regulatory operations – Control valve - Examples: Level process – Flow process - Heat Exchanger. Controller: ON/OFF – PID controller – Electronic PID controller – Introduction to controller tuning.

UNIT V ADVANCED CONTROL SCHEMES 9

Ratio Control – Feed forward control - Cascade control – Model predictive control – Examples from boiler systems and distillation column.

TOTAL : 45 PERIODS

OUTCOME :

- Apply the knowledge about the instruments to use them more effectively
- Ability to select appropriate level and pressure measuring instruments according to the application
- Ability to design signal conditioning circuits and compensation schemes
- Able to understand the different conventional control actions, their relative merits, demerits and their typical applications.
- Able to analyze the need for advanced control and methods of implementation of these control techniques.
- Ability to design & implement a suitable control scheme for a given process.

TEXT BOOKS:

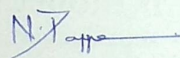
- 1 Doebelin. E.O and Manik D.N.,” Measurement Systems: Application and Design”, SpecialEdition, Tata McGraw Hill Education Pvt. Ltd, 2007
- 2 Bequette. B. W.,” Process Control Modeling, Design and Simulation”, Prentice Hall of India,2004

REFERENCES:

- 1 Liptak B.G., “Instrument and Automation Engineers’ Handbook: Process Measurement and Analysis”, Fifth Edition, CRC Press, 2016.
- 2 Patranabis. D., “Principles of Industrial Instrumentation”, 3rd Edition, Tata McGraw Hill, NewDelhi, 2010.
- 3 Stephanopoulos, “Chemical Process Control – An Introduction to Theory and Practice”, Prentice Hall of India, 2005.

MAPPING COURSE OUTCOMES WITH PROGRAMME OUTCOMES

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| COOE1.5 | M | | | | | | | | | | M | M | S | S | |
| COOE1.6 | M | M | | M | | | | | | M | M | M | S | S | S |


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M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044

INTRODUCTION TO INDUSTRIAL DATA COMMUNICATION

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3 0 0 3

COURSE OBJECTIVES

- To impart the basic concepts of data networks
- To introduce the serial communication interface standards for industrial data networks.
- To familiarize the students with the principles of MODBUS and CANBUS protocols.
- To introduce Foundation Fieldbus and HART Protocols.
- To introduce the principles of Wireless Networks used in Industrial Data Communication

UNIT I DATA NETWORK BASICS 9

Introduction to Data network – OSI Network model – LAN topologies – Ethernet Protocol – Overview of protocols and standards used in Industrial Data Networks.

UNIT II SERIAL COMMUNICATION STANDARDS 9

Introduction to Serial Communication Standards: EIA232, EIA485, I²C and USB – Features, Elements, Connections and Handshaking.

UNIT III FUNDAMENTALS OF MODBUS AND CANBUS 9

MODBUS:- Overview, Protocol structure, Communication, Request and Response messages and Applications. CANBUS:- Standard and Extended CAN, Message types, Architecture, Data Transmission and Applications.

UNIT IV INTRODUCTION TO FIELDBUS AND HART 9

Fieldbus:- Introduction, Protocol stack, Packet format, types and Applications – HART:- Features, modes, instruction formats and Applications.

UNIT V WIRELESS NETWORKS FOR INDUSTRIAL DATA COMMUNICATION 9

Wired Vs. Wireless Communication – Challenges in Wireless Communication - Wireless LAN Protocol fundamentals, Introduction to Wireless HART Protocol.

TOTAL : 45 PERIODS

COURSE OUTCOME

- Acquire knowledge about basic concepts of data networks
- Gain familiarity with various serial interface standards used in industrial datanetworks.
- Gain knowledge on the principles of MODBUS and CANBUS protocols.
- Get familiarized with Foundation Fieldbus and HART Protocols.
- Gain familiarity with wireless networks for industrial data communication.
- Apply the knowledge of various communication standards for different application and use them more effectively.

TEXT BOOKS

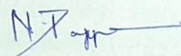
- 1 Mackay.S, Wrijut.E, Reynders.D and Park.J. “Practical Industrial Data Networks Design, Installation and Troubleshooting”, Newnes Publication, Elsevier, 1st Edition, 2004.
- 2 Berge.J., “Field Buses for Process Control: Engineering, Operation and Maintenance”, ISA Press, 2004.
- 3 Berhouz.A. Forouzan, “Data Communications and Networking”, 4th Edition, Tata McGraw Hill, 2007.

REFERENCE BOOKS

- 1 Buchanan.W., "Computer Buses", CRC Press, 2000.
- 2 NPTEL Notes on "Fieldbus Networks" and "Computer Networks", IIT Kharagpur.

MAPPING COURSE OUTCOMES WITH PROGRAMME OUTCOMES

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N.T. 

HEAD OF THE DEPARTMENT
DEPT. of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044

INDUSTRIAL AUTOMATION SYSTEMS

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APPING COURSE
CO, P50
COOE31
COOE32
COOE33

COURSE OBJECTIVES:

- To introduce the concept of PLC, DCS and SCADA
- To expose students to different types of transmitters, Final Control elements and actuators
- To teach students about the roll of Computers in Process Industries
- To familiarize students on Programming of PLC with typical case studies
- To teach about the various sub systems of DCS

UNIT I INTRODUCTION 9

Need for automation systems - Architecture of Industrial Automation system. Introduction to PLC, SCADA and DCS – Introduction to Industrial Data Networks:- Foundation Field Bus and Profibus.

UNIT II FIELD DEVICES 9

Conventional / Smart Process Transmitters:- Temperature, Pressure, Flow, Level and pH Measurement - Final Control Elements:- Actuators: Pneumatic and electric actuators - Control Valves - Thyristor Power Controller. Introduction to DC and AC Servo Drives for motion control – Interfacing Field devices with I/O Sub Systems.

UNIT III COMPUTER AIDED MEASUREMENT AND CONTROL SYSTEMS 9

Role of computers in measurement and control - Elements of computer aided measurement and control:- Man-Machine interface, computer aided process control hardware and software – Industrial Internet of things (I²oT) – Cyber Security for Industrial automation

UNIT IV PROGRAMMABLE LOGIC CONTROLLERS 9

Programmable Logic Controllers:- Hardware of PLC - PLC programming:-Ladder diagram with examples - PLC Communication and networking - Case studies:- Bottle filling application and Elevator control.

UNIT V DISTRIBUTED CONTROL SYSTEM 9

DCS:- LCU-Shared communication facility- Display Hierarchy- High Level and Low Level interfaces - Case studies:- DCS in cement plant and thermal power plant.

TOTAL: 45 PERIODS

COURSE OUTCOMES:

- Gain knowledge on basics of Industrial Automation
- Ability to select appropriate Transmitters, Final control elements and Controllers for different application
- Gain familiarity with Computer aided measurement and control
- Students will be able to Develop Ladder programmes for PLC
- Acquire knowledge about Distributed Control System
- Will be able to recommend right choice of automation systems for a given application

REFERENCES:

1. S.K.Singh, "Industrial Instrumentation", Tata Mcgraw Hill, 2nd edition companies,2003.
2. C D Johnson, "Process Control Instrumentation Technology", Prentice Hall India, 8th Edition, 2006.
3. E.A.Parr, Newnes , NewDelhi, "Industrial Control Handbook", 3rd Edition, 2000.
4. Gary Dunning, Thomson Delmar, "Programmable Logic Controller", Ceneage Learning, 3rd Edition,2005.
5. Lucas, M.P., "Distributed Control System", Van Nostrand Reinhold Company, New York,1986.

APPING COURSE OUTCOMES WITH PROGRAMME OUTCOMES

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N.T.

HEAD OF THE DEPARTMENT
 DEPT. of INSTRUMENTATION ENGINEERING
 M.I.T. CAMPUS, ANNA UNIVERSITY
 DROMAPEI, CHENNAI-600 044

INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLER

L T P C
3 0 0 3

COURSE OBJECTIVES

- To provide an over view on the role of PLC in an Industrial Automation.
- To introduce the basics of PLC Programming Languages.
- To expose the IEC 61131-3 standard for PLC Programming
- To teach the Ladder Diagram and Function Block Diagram based PLC Programming with examples.
- To teach typical applications of PLC.

UNIT I INTRODUCTION

Introduction to Hardwired Relay Logic and Solid-state Logic - Examples — Introduction to Programmable Logic - Examples - Role of PLC in an Industrial automation.

9

UNIT II PLC ARCHITECTURE

Architecture of PLC - Input/output modules:- Analog/Digital Input/output modules - Scan cycle of PLC. Introduction to PLC Programming languages:- Ladder Diagram(LD), Function Block Diagram(FBD), Sequential Function Charts(SFC), Instruction List(IL), Structured Text(ST).

9

UNIT III IEC 61131-3 PLC PROGRAMMING STANDARD

IEC 61131-3 Standard Building Blocks of IEC 61131-3 - Elements of Program Organization Unit: - Variables, Data types and Common elements - Standard Functions.

9

UNIT IV PLC PROGRAMMING

Ladder Logic Programming: - Relay Logic Instructions, Timer, Counter, Math and Program Control instructions - Function Block Diagram – Examples.

9

UNIT V CASE STUDIES

Case studies: Burner Management System in a Thermal Power Plant - Traffic Light Control System - Bottle filling application - Elevator Control – Robotic Arm Control.

9

TOTAL : 45 PERIODS

COURSE OUTCOMES

- Ability to understand the role of PLC in the Factory Automation and Process Automation
- Get exposed to different ways of Programming PLC.
- Get exposed to IEC 61131-3 standard
- Ability to develop Ladder Diagram and Functional Block Diagram for typical Industrial applications.
- Ability to apply various logic instruction for different application
- Apply the knowledge of PLC for various application

REFERENCE BOOKS

1. Petruzella.F.D. "Programmable Logic Controllers", 3rd Edition, Tata McGraw-Hill, 2010.
2. Hughes.T.A. "Programmable Logic Controllers: Resources for Measurements and Control Series", 3rd Edition, ISA Press, 2004.

3. Karl-Heinz John, Michael Tiegelkamp, "IEC 61131-3: Programming Industrial Automation Systems", 2001.
4. Gary Dunning and Thomson Delmar, "Programmable Logic Controller", 3rd Edition, Cengage Learning, 2005.

MAPPING COURSE OUTCOMES WITH PROGRAMME OUTCOMES

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| COOE4.5 | | | | | | | | | | | S | S | S | | |
| COOE4.6 | | | | | | | | | | | S | S | | | M |

N. J. Raja

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DEPT. of INSTRUMENTATION ENGINEERING
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CHROMEPET, CHENNAI-600 044



ANNA UNIVERSITY
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS :: CHENNAI - 600 044

Dr.N.Pappa
Professor & Head

10-02-2022

To

The Director,
Centre for Academic Courses,
Anna University,
Chennai – 600 025.

Through The Faculty Chairperson, Electrical Engineering

Sir,

Sub: M.E. (Instrumentation Engg) - Eligibility Criteria - Additional UG program – inclusion in the TANCET 2022 -2023 - Reg.

With the approval of the faculty members of the Department and DCC members, it is requested to include the following programs as eligible for admission to M.E. (Instrumentation Engineering) in the forth coming TANCET call for 2022 – 2023. The copies of minutes of the Department faculty meeting and DCC are attached herewith.

| SI.No. | Eligible U.G Programme (B.E. / B.Tech.) |
|--------|---|
| 1. | Instrumentation Engineering |
| 2. | Electronics and Instrumentation Engineering |
| 3. | Instrumentation and Control Engineering |
| 4. | Electrical and Electronics Engineering |
| 5. | Electronics and Communication Engineering |
| 6. | Electronics Engineering |
| 7. | Automation Engineering* |
| 8. | Mechatronics Engineering* |
| 9. | Automation and Robotics Engineering* |
| 10. | Biomedical Instrumentation Engineering* |
| 11. | Electrical and Computer Engineering* |

Kindly do the needful.

N.Pappa
10/02/2022
PROFESSOR & HEAD

M.S.
10/2/2022

Dr. S. Usha, Ph.D.,
Professor & Chairman
Faculty of Electrical Engineering
Anna University, Chennai-25.

HEAD OF THE DEPARTMENT
DEPT. of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPLI, CHENNAI-600 044



DEPARTMENT OF INSTRUMENTATION ENGINEERING
MADRAS INSTITUTE OF TECHNOLOGY CAMPUS
ANNA UNIVERSITY, CHENNAI 600 044

**Minutes of the DCC meeting held through online mode 'Microsoft Teams' on
09.02.2022 at 4.00PM**

The Departmental Consultative Committee Members met on 9th Feb, 2022 at 4.00 PM through online mode 'Microsoft Teams' to discuss the following agenda point:

- Eligibility criteria for M.E. (Instrumentation Engineering) admission from the academic year 2022-2023 onwards.

The following DCC members were present for the meeting:

| Name | Designation |
|-------------------|--|
| Dr.S.Usa | Chairman , Faculty of Electrical Engineering, AU |
| Dr.K.Udhyakumar | Professor, Dept. of EEE, AU |
| Dr.V.Senthilkumar | Professor, Dept. of EEE, AU |
| Dr. N.Pappa | Professor & Head |
| Dr.S.Srinivasan | Professor, IE |
| Dr. D.Vasanthi | Associate Professor, IE |
| Dr. M.Mythily | Assistant Professor (Sr.G.), IE |

Dr.N.Pappa, Professor & Head, IE welcomed the members and discussed the agenda points with the members.

Eligibility criterion for ME (Instrumentation Engineering) admission from the academic year 2022-2023 onwards:

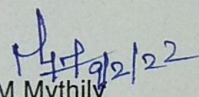
HoD made a presentation on the various UG programs offered across India and in particular Tamilnadu where UG programs relevant to Instrumentation Engineering is getting offered with the AICTE approved nomenclature and she informed that the same agenda has been discussed in the faculty meeting held on 09.02.2022. She also informed the DCC members that the Department has given a request to change the nomenclature of the PG program offered by the Department as M.E. in Instrumentation Engineering (with specialization in Industrial Automation) to reflect the focal area of the Department and also to enable more job opportunities for the PG students graduating from the Department. The proposal for revision of PG nomenclature is under consideration for approval by appropriate governing bodies of Anna University. To enable the Department to attract more students and also Instrumentation being interdisciplinary, it is requested to consider the UG students studying with the following UG specialization offered in various reputed Universities, Autonomous colleges and University Depts (as per AICTE UG nomenclature) as listed in the following TABLE as

suggested by the Dept. faculty members as eligible to M.E.(Instrumentation Engineering) for the academic year 2022-2023.

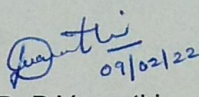
| Sl.No. | Eligible U.G Programme (B.E. / B.Tech.) |
|--------|---|
| 1. | Instrumentation Engineering |
| 2. | Electronics and Instrumentation Engineering |
| 3. | Instrumentation and Control Engineering |
| 4. | Electrical and Electronics Engineering |
| 5. | Electronics and Communication Engineering |
| 6. | Electronics Engineering |
| 7. | Automation Engineering* |
| 8. | Mechatronics Engineering* |
| 9. | Automation and Robotics* Engineering |
| 10. | Biomedical Instrumentation* Engineering |
| 11. | Electrical and Computer Engineering* |

*Additional UG specializations added

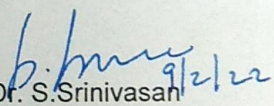
Hence based on the discussion held, the DCC members approved the 11 UG Programs listed in the above Table including the 5 additional UG programs proposed by the Dept. of Instrumentation Engineering, MIT as eligible for admission to M.E. (Instrumentation Engineering) from the academic year 2022-2023 onwards. Having discussed the agenda point mentioned herein, HoD thanked the DCC members and concluded the meeting.


Dr. M. Mythily

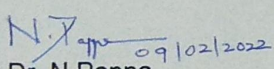
Asst. Prof. (Sr.G) IE


Dr. D. Vasanthi

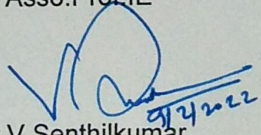
Asso. Prof IE


Dr. S. Srinivasan

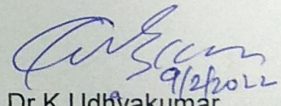
Prof. IE


Dr. N. Pappa

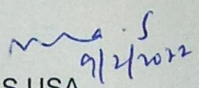
Prof. & Head, IE


Dr. V. Senthilkumar

Prof. EEE

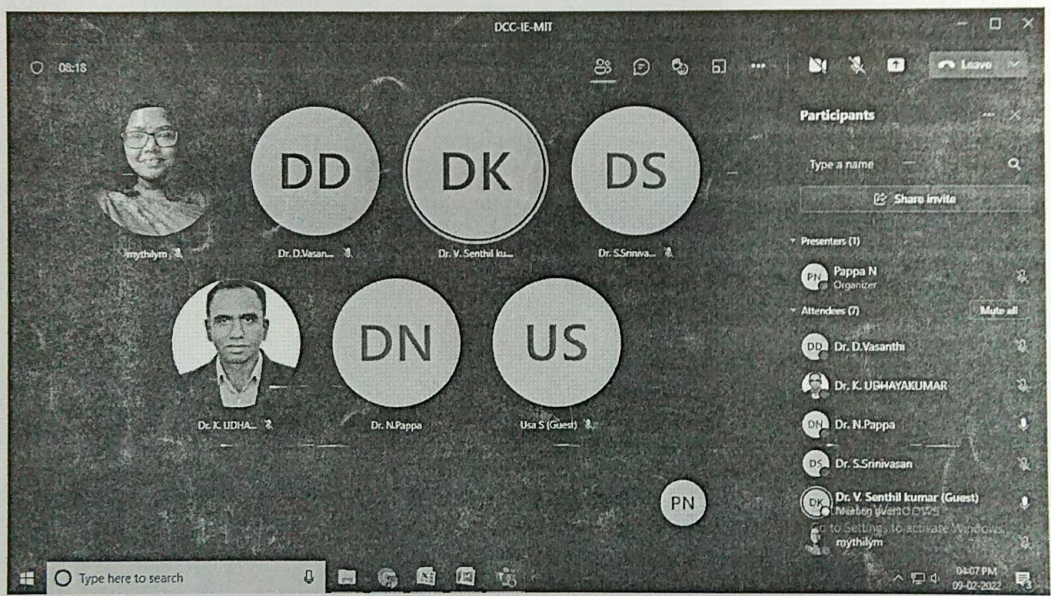

Dr. K. Udhyakumar

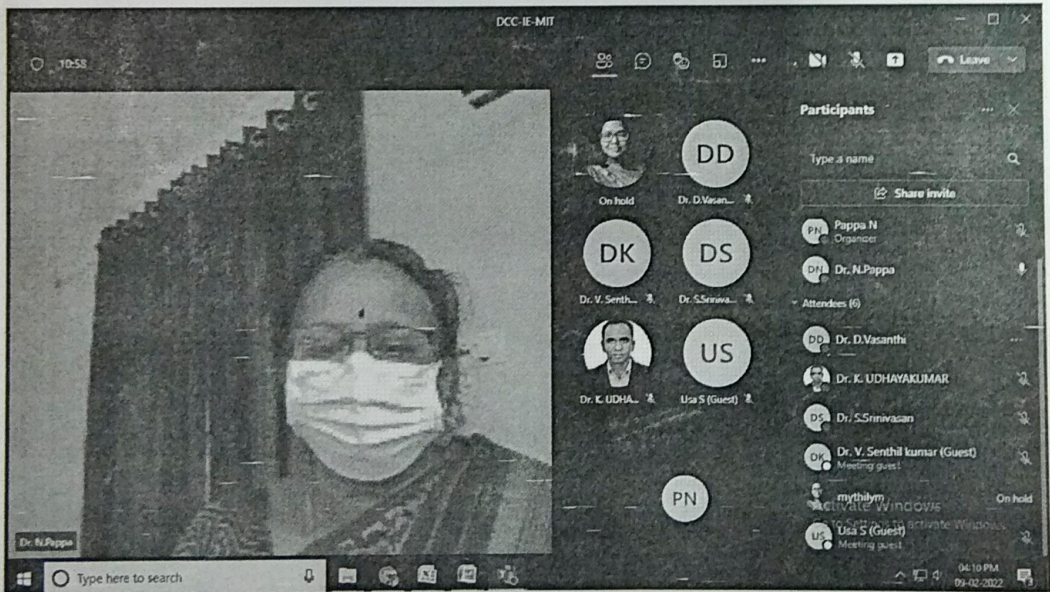
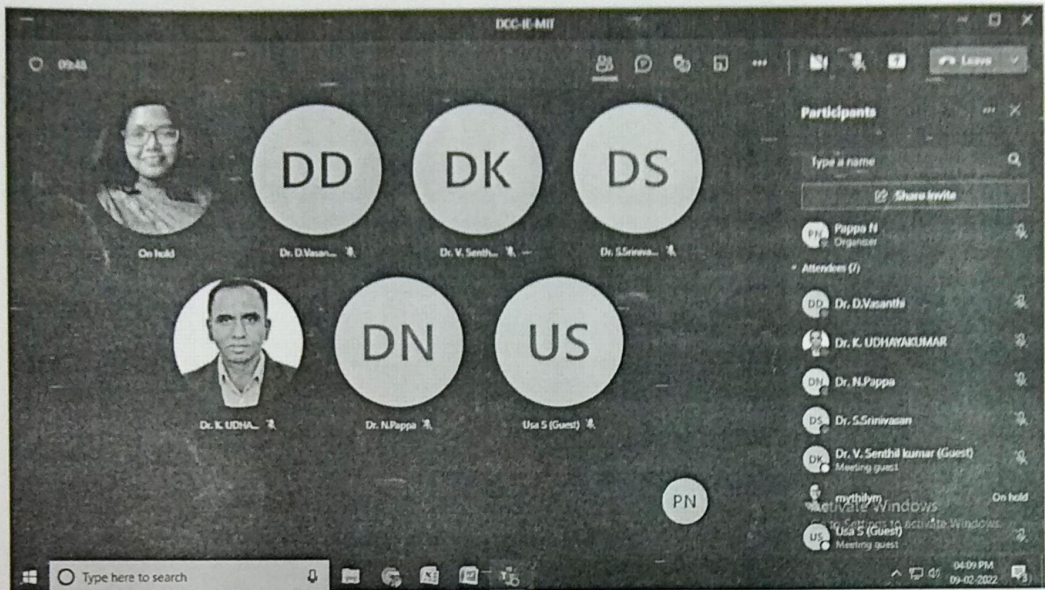
Prof. EEE


Dr. S. USA

Prof. EEE & Faculty Chairman

| Full Name | User Action | Timestamp |
|------------------------------|---------------|----------------------|
| Pappa N | Joined | 2/9/2022, 3:59:18 PM |
| Dr. V. Senthil kumar (Guest) | Joined before | 2/9/2022, 3:59:18 PM |
| Dr. K. UDHAYAKUMAR | Joined before | 2/9/2022, 3:59:18 PM |
| mythilym | Joined | 2/9/2022, 4:04:11 PM |
| Dr. D.Vasanthi | Joined | 2/9/2022, 4:04:23 PM |
| Dr. S.Srinivasan | Joined | 2/9/2022, 4:04:43 PM |
| Dr. N.Pappa | Joined | 2/9/2022, 4:06:23 PM |
| Usa S (Guest) | Joined | 2/9/2022, 4:06:47 PM |





11:25

DCC-IE-MIT

Participants

Type a name

Share invite

PN Pappa N Organizer

DN Dr. N.Pappa

Attendees (6)

DD Dr. D.Vasanthi

Dr. K. UDHAVAKUMAR

DS Dr. S.Srinivasan

DK Dr. V. Senthil kumar (Guest) Meeting guest

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US Usa S (Guest) Meeting guest

04:10 PM 09-02-2022

Dr. N.Pappa

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| N. No | Courses | College's Offering |
|-------|---|--|
| 1 | Applied Electronics and Communications | 1. Sreeange College of Engineering, Kerala 2. KNKT College of Engineering, Kerala 3. Indira Gandhi Institute of Technology, Kerala 4. APJ Abdul Kalam Technological University, Kerala |
| 2 | Applied Electronics and Instrumentation Engineering | 1. Engineering College of Engineering 2. Thiagarajar Institute of Science and Technology |
| 3 | Automation Engineering | 1. Hangee Amman Institute of Technology, India 2. Karpagam Institute of Technology 3. Kuvempu Institute of Technology 4. Anna College of Engineering and Technology 5. PPS Tech, Coimbatore 6. Kannur University 7. Pappanadan Engineering College 8. Sri Ramakrishna Engineering College 9. Sreeange College of Engineering, Kerala 10. Energy Engineering College 11. Pappanadan Engineering College |
| 4 | Artificial Intelligence (AI) and Data Science* | 1. PPS Tech, Coimbatore 2. Kannur University 3. Pappanadan Engineering College 4. Sri Ramakrishna Engineering College 5. Sreeange College of Engineering, Kerala 6. Energy Engineering College 7. Pappanadan Engineering College |

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22:44

DCC-IE-MIT

Participants

Type a name

Share invite

PN Pappa N Organizer

DN Dr. N.Pappa

Attendees (8)

DD Dr. D.Vasanthi

Dr. K. UDHAVAKUMAR

DS Dr. S.Srinivasan

DK Dr. V. Senthil kumar (Guest) Meeting guest

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US Usa S (Guest) Meeting guest

04:22 PM 09-02-2022

Dr. N.Pappa

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| 4 | Artificial Intelligence (AI) and Data Science* | 1. Anna College of Engineering and Technology 2. PPS Tech Coimbatore 3. Kannur University 4. Pappanadan Engineering College 5. Sri Ramakrishna Engineering College 6. Sreeange College of Engineering, Kerala 7. Energy Engineering College 8. Pappanadan Engineering College |
| 5 | Automation and Robotics* | 1. Sreeange Institute of Science and Technology 2. Dr. JIJEE Unimassand Research Institute 3. SNN College of Engineering 4. College of Engineering Guindy 5. IIT Guindy 6. PPS Tech Coimbatore 7. NIT Vidyan 8. MPPN HCHL JNR Engineering College 9. Hangee Amman Institute of Technology 10. Sreeange College of Engineering, Kerala 11. Energy Institute of Technology and Science |
| 6 | Microfluidic Instrumentation | |
| 7 | Electrical and Computer Engineering | |

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DEPARTMENT OF INSTRUMENTATION ENGINEERING

Minutes of the Faculty Meeting held on 09/02/ 2022

Minutes of the faculty meeting headed by Dr. N. Pappa, Professor & Head, in the Department of Instrumentation Engineering, between 02.00 PM and 4.00 PM on 09/02/2022.

The following faculty members were present for the meeting.

| Name | Designation |
|--------------------------|----------------------------|
| Dr. D. Manamalli | Professor |
| Dr. S. Srinivasan | Professor |
| Dr.K.Latha | Professor |
| Dr. D. Vasanthi | Associate Professor |
| Dr. Sabitha Ramakrishnan | Associate Professor |
| Dr. S. Sutha | Associate Professor |
| Dr. C. Shanthi | Assistant Professor(Sr.Gr) |
| Dr. M. Mythily | Assistant Professor(Sr.Gr) |
| Dr. K. kamalanand | Assistant Professor(Sr.Gr) |
| Dr. D. kalpana | Assistant Professor(Sr.Gr) |
| Mr. K. selvakumar | Teaching Fellow |
| Mrs. S. Arokia Suganya | Teaching Fellow |
| Mrs. P. Anbumalar | Teaching Fellow |
| Mr.S.Nambinarayanan | Teaching Fellow |

Agenda points

1. Submission of R & D Proposals with reference to call for proposal circular from Director (CTDT).
2. Scope for submission of R & D proposals in Healthcare – Initiative by NHHID – Dr Sabitha requested to brief.
3. Faculty fellowships (TANSCST, INAE etc), Collaboration with IITs, NITs and industries (UG,PG projects etc).
4. Student internships, Membership in ISA by UG and PG.
5. Conduct of Intecho, DAA functions etc
6. Creation of individual IRINS – Vidwan ID – Demonstration by Dr K.Kamalanand.
7. Conduct of End Sem exams UG and PG

8. Immediate Requirement to Identify i) Director, COE on Robotics and Automation, ii) Deputy Director, COE on IOT iii) Nodal officer for SCOE at Prof and Asso Professor level , all these positions are by rotation for a period of two years.
9. I ME (IE) admission – Discussion regarding adding more UG programs to be eligible – Faculty requested to identify more relevant UG programs offered in various Universities/other states to suggest the programs on par with AICTE nomenclature.
10. Introducing new PG program : Views and discussion
11. Financial details, Minor civil and electrical works carried out and requested, Maintenance of Lab Equipment – Requirements, Handing over Block I - Status.
12. NBA – Action Plan and Briefing by Prof Srinivasan
13. Wiring for C-IoT building and purchase of 12 computers for PC and IA labs.
14. Subject allocation planning for the forthcoming Even sem

The HoD welcomed all the faculty members and teaching fellows present for the meeting.

1. **Submission of R & D Proposals with reference to call for proposal circular from Director (CTDT)**

The HoD briefed the faculty members about the importance of submitting research proposal and also pointed out that during last years, research proposals submitted from our department are not attracted by the funding agencies due to pandemic. Further, She also have shared the circular from the Director CTDT highlighting the calls for Research proposal and fellowships and requested the faculty members to make senior efforts and to identify the interdisciplinary/trans disciplinary team as directed by our honorable vice chancellor and submit the proposal within couple of months.

2. **Scope for submission of R & D proposals in Healthcare – Initiative by NHHID – Dr Sabitha Ramakrishnan requested to brief.**

The HoD addressed the faculty members about the scope of submitting R& D proposals and also requested Dr.Sabitha Ramakrishnan, Asso.Prof, dept. of Instrumentation Engg, who attended the meeting organized by the NHIDD to brief about the initiative to be taken and activities discussed regarding submission of proposals . Dr.Sabitha Ramakrishnan have briefed about the research ideas being discussed in the field of biotechnology and biomedical instrumentation organized by Madras ENT research foundation. Further the HoD thanked Dr.Sabitha Ramakrishnan and requested the faculty members to make use of opportunity and to apply by collaborative project with them.

3. Faculty fellowships (TANSCST, INAE etc), Collaboration with IITs, NITs and industries (UG,PG projects etc).

The HoD informed the gathering about the application submitted by Dr.M.Mythily, Ass.Prof, Dept of instrumentation Engineering to TANSCST.She also added the discussion she had with the external expert member for our recently conducted STTP, Dr. Radhakant Padhi, Professor, Department of Aero Space Engineering, Indian Institute of science, Bangalore, about the fellowships schemes offered by Indian national academy for education in which students and faculty member can be mentored by INAE fellows and she Requested the faculty members to make use of opportunities in the forming year .Also she mentioned that Mr.Rohit , student from third year ,is being nominated as mentee under Dr. Radhakant Padhi. Regarding the collaboration with IITs and NITs, HoD reminded about the discussion meet we had with Dr.Babji Srinivasan Associate Professor Applied Mechanics, IIT Madras ,in the field of data analytics applied to sports science and 13 final year and third year students has been referred for internships.

4. Student internships, Membership in ISA by UG and PG

The HoD rightly pointed out the faculty members regarding internship during summer vacation is mandatory for present third year as per 2019 regulation, insisted that every student should undergo the internship and request the faculty members to encourage the students to get associated with industries as a prerequisite. Further she added the discussion had with Dr. S. Srinivasan regarding membership in ISA making present M.E students as ISA members as we need 14 members to hold the institute membership ISA chapter functioning at M.I.T campus.

5. Conduct of Intecho, DAA functions etc

The HoD informed the gathering about the conduct of Intecho and DAA function will be tentatively in the month of March 2022 and with respect to scholarship offered to the students, faculty requested to collect the application form along with income certificate of earlier year and mark sheet to avoid audit objection. Further, she added that reagrding conduct of DAA and the call for nomination of illustrious alumnus award to decide the distinguished alumni for the current year.

6. Creation of individual IRINS – Vidwan ID – Demonstration by Dr K.Kamalanand.

The HoD informed the faculty members about importance of creating individual IRINS – Vidwan ID as initiative taken by anna university library team and directed by director IQAC which is mandatory .She requested Dr.K.Kamalanand to give a demonstration on creating and updating the details. She thanked Dr.K.Kamalanand for sharing the usefull information and informed the faculty members to make common request to anna university library to get ID for IRINS and to update it shortly.

7. Conduct of End Sem exams UG and PG

The HoD informed the faculty member about the smooth conduct of end semester examination in our department in spite of additional challenges and for P.G examination, Dr.K.Kamalanand had prepared the timetable schedule which is going to be happening in offline mode. She also added regarding the conduct of P.G viva voce which is tentatively planned in the fourth week of February 2022 at once the their exams got over and further she made a request to all supervisors to ensure their students project thesis follows Anna university format.

8. Immediate Requirement to Identify i) Director, COE on Robotics and Automation, ii) Deputy Director, COE on IOT iii at Prof and Asso Professor level , all these positions are by rotation for a period of two years.

The HoD briefed the faculty members about Immediate Requirement to Identify three positions in our department and requested the faculty members to extend their cooperation. Dr. Sabitha Ramakrishnan responded that she would be interested to accept the responsibility and ready to serve for next tenure at COE on IOT.

- Director, COE on Robotics and Automation : Dr.K.Latha, Prof , Instru Engg.
- Deputy Director, COE on IOT : Dr.S.meyyappan, AP, Instru Engg.
- Nodal officer for SCOE: Dr.S.Kumar, Asso.Prof , Instru Engg

The HoD thanked all the professors to accept additional responsibility.

9. I ME (IE) admission - Discussion regarding adding more UO programs to be eligible - Faculty requested to identify more relevant UO programs offered in various Universities/other states to suggest the programs on par with AICTE nomenclature.

The HoD recalled the gathering about the ME admission and she briefed the discussion with our P.G students regarding the possible cause of less P.G admission inspite of relaxing eligibility criteria , might be due to delayed admission, many of deserving students had joined in other universities. She added that to improve the M.E students admission for forthcoming years, an initiative has been taken with the help of Mrs. S. Arokia Suganya, in collecting the details of colleges across tamilnadu and neighboring states ,offering courses enable to select the P.G instrumentation specialization in industrial automation. Further discussing with all faculty members, it is suggested to include some more U.G program related to instrumentation to make it eligible for M.E in instrumentation. Based on the survey, the following U.G programme can be included to make eligible to apply for P.G instrumentation as follows,

- Automation Engineering
- Mechatronics Engineering
- Automation and Robotics Engineering
- Biomedical instrumentation Engineering
- Electrical and computer Engineering.

10. Introducing new PG program : Views and discussion

The HOD recalled the faculty member about the new renamed P.G program, M.E instrumentation with specialization in industrial automation. Further she added that to ensure the M.E admission, few U.G programme can be also included to make eligible to apply for P.G instrumentation with in industrial automation.

11. Financial details, Minor civil and electrical works carried out and requested, Maintenance of Lab Equipment - Requirements, Handing over Block I - Status

The HoD briefed the gathering about status of partial hand overing of Instrumentation block -I to the Department of electronics Engineering.

12. NBA - Action Plan and Briefing by Prof Srinivasan

The HoD and Prof Srinivasan, NBA coordinator summarized the faculty members about the action plan with help of references available from department of Computer

technology. Further she have shared identified department team members based on the criteria and suggested conducting periodical review meeting and to start work systematically. The details of team member are as follows,

Dept Coordination Committee: Dr J.Prakash/ Dr N.Pappa/ Dr S.Srinivasan(Dept Coordinator)

Mentors: Prof P.Kanagasabapathy/ Dr T.Thyagarajan

| Criteria Number | Criteria | Marks Allotted | Faculty Assigned |
|-----------------|--|----------------|---|
| 1 | Course Outcomes and Program Outcomes | 100 | Dr. D.Vasanthi Dr. D.Manamalli Mr. S.S.Pream Anand |
| 2 | Program Curriculum and Teaching – Learning Processes | 75 | Dr. S.Kumar Dr. S.Sutha Mr. K.Selvakumar Mrs. P.Anbumalar |
| 3 | Students' Performance | 75 | Dr. Sabitha Ramakrishnan Dr. M.Mythily Dr. D.Kalpana Mr. S.Nambi Narayanan |
| 4 | Faculty Information and Contributions | 100 | Dr. K.Kamalanand Dr. M.Vijayakarhick Dr. A.Ganeshram Mrs. S.Arockiya Sukanya |
| 5 | Resources | 75 | Dr. N.Vinoth Dr. S.Meyyappan |
| 6 | Continuous Improvement | 75 | Dr. K.Latha Dr. C.Shanthi |

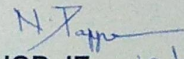
13. Wiring for C-IoT building and purchase of 12 computers for PC and IA labs

The HoD requested all the supervisors to ensure their scholars to occupy the place in IOT building within couple of weeks.

14. Subject allocation planning for the forthcoming Even sem

The HoD requested Dr.D.Vasanthi to formulate the subject allocation and to conduct the meeting for the same in the next week.

Having discussed all the agenda points mentioned herein, The HoD thanked the faculty members who were present and concluded the meeting.


HOD, IE 10/02/2022

**HEAD OF THE DEPARTMENT
DEPT.of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044**



Mr.S.Srinivasan MIT, Anna University <srini@mitindia.edu>

DCC meeting

Dr. S.Srinivasan, MIT Campus <srini@mitindia.edu>

Thu, Oct 6, 2022 at 5:08 PM

To: s_usa@annauniv.edu, sensang@annauniv.edu, k_udhayakumar@annauniv.edu, NP <npappa@rediffmail.com>, Vasanthi <vasanthi_d1@rediffmail.com>, mythily nil <mythily_eie@yahoo.co.in>

Cc: "Mr.S.Srinivasan MIT, Anna University" <srini@mitindia.edu>, Dept IE <mitieau@gmail.com>

To

The Department Consultative Committee Members

Department of Instrumentation Engineering

MIT Campus, Anna University.

Sir / Madam,

It is proposed to conduct the DCC meeting as per the schedule below

Date: 07.10.2022 (Friday)

Time: 3.00 PM (Through online mode)

Agenda:

1. To include the subject 'EI5201 Electronics for Analog Signal Processing- I' to the lateral entry students in 4th Semester.
2. To include new sub head under the 'Head Consortium'
3. To include the changes in CO-PO mappings of R2015 and R2019.

With regards,
S.Srinivasan

—

Dr. S.Srinivasan
Professor
Department of Instrumentation Engineering
MIT Campus, Anna University
Chrompet, Chennai 600 044



ANNA UNIVERSITY
MADRAS INSTITUTE OF TECHNOLOGY CAMPUS
CHROMEPET, CHENNAI - 600 044
DEPARTMENT OF INSTRUMENTATION ENGINEERING

Phone No.
2251 6035

Dr. N.Pappa
Professor & Head

Date: 15.02.2022

To

Professor & Head,
Computer Centre,
MIT Campus, Anna University,
Chennai - 600 044.

Sir,

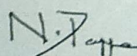
Sub: M.I.T. - Instrumentation Engineering - Subject allotment for Even Semester (Feb 2022 - June 2022) - allotment of faculty members requested - Reg.

It is kindly requested to allot a faculty members for handling the following subject to be offered for the Even Semester EIE (Full Time) students in the forthcoming Even Semester (Feb 2022 - June 2022).

| Semester | Subject code | Name of the subject | No of batches | No of faculty members required |
|----------|--------------|---|---------------|--------------------------------|
| II | GE5153 | Problem Solving and Python Programming | 1 | 1 |
| | GE5161 | Problem Solving and Python Programming Laboratory | 1 | 1 |

Thanking you,

Yours faithfully,


15/02/2022

Dr. N.PAPPA
Prof. & Head, IE

HEAD OF THE DEPARTMENT
DEPT. of INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044

Copy to: I. HOD, DASH, MIT

Received
Dr. S. Dash
15/2/22



ANNA UNIVERSITY
DEPARTMENT OF INSTRUMENTATION ENGINEERING
M.I.T.CAMPUS:: CHENNAI 600 044

Dr.S.Srinivasan
PROFESSOR & HEAD

10.10.2022

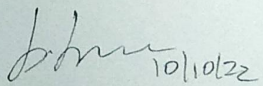
To
The Director
Academic Courses
Anna University
Chennai 600025

Through The Chair Person, Faculty of Electrical Engineering.

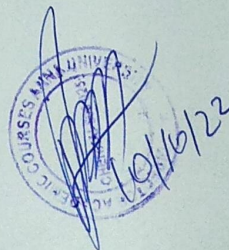
Sub: Department of Instrumentation Engineering – M.I.T. Campus - Lateral Entry Students-
Bridge courses/Additional Courses - submitted - Reg

Ref: Letter No.5139/AU/CAC/2022 dt 23.09.2022

Vide reference cited above, It is proposed to include the subject 'EI5201 Electronics for
Analog Signal Processing- I' to the lateral entry Students as additional subject in the 4th
Semester under R-2019.


10/10/22
PROFESSOR & HEAD

HEAD OF THE DEPARTMENT
DEPT. OF INSTRUMENTATION ENGINEERING
M.I.T. CAMPUS, ANNA UNIVERSITY
CHROMEPET, CHENNAI-600 044.



DEPARTMENT OF INSTRUMENTATION ENGINEERING
Minutes of the DCC Meeting held on 07/10/2022

Minutes of the DCC meeting for the Department of Instrumentation Engineering held online between 3.00 P.M and 3.45 P.M on 07/10/2022.

The following members were present for the meeting.

| Name | Designation |
|---------------------|---------------------------------|
| Dr. S. Srinivasan | Professor and Head, IE |
| Dr. S. Usa | Chairperson, Faculty of EEE, AU |
| Dr. V. Senthilkumar | Professor, Dept of EEE, AU |
| Dr. K. Udhayakumar | Professor, Dept of EEE, AU |
| Dr. N. Pappa | Professor, IE |
| Dr. D. Vasanthi | Associate Professor, IE |
| Dr. M. Mythily | Assistant Professor (Sr.Gr), IE |

The HoD welcomed the DCC members for the meeting and presented the following agenda points before the DCC members

Agenda:

1. To include the subject 'EI5201 Electronics for Analog Signal Processing- I' to the lateral entry students in the 4th Semester under R-2019.
2. To include new sub head under the Head 'Consortium'.
3. To ratify the changes in CO-PO mappings of R2015 and R2019.

Deliberate discussions were made on each agenda points and the details are as follows.

Agenda 1 - To include the subject 'EI5201 Electronics for Analog Signal Processing- I' to the lateral entry students in the 4th Semester under R-2019.

HoD brought to the notice of DCC members that around 18 lateral entry students of different diploma backgrounds have joined the department. In order to bridge the gap

with the regular students, it was decided to introduce any important subject available in the 1st two semesters of the curriculum as a bridge/additional course and the same was discussed in the faculty meeting held on 30.09.22 (Friday) at 10.00 AM in the KVN Seminar Hall. After deliberate discussions, it was proposed to introduce the subject EI5201 - Electronics for Analog Signal Processing- I as additional subject in the 4th semester (2nd semester for the lateral entry student). DCC members suggested that the course can be offered in the fourth semester and can be shown as a separate workload for the faculty handling that course.

Agenda 2 - To include new sub head under the Head 'Consortium'

HoD requested the DCC members that in order to accommodate certain expenses, new subheads may be introduced under the head 'Consortium' which may meet out expenses for faculty / staff training, professional membership fee for faculty and students, cocurricular and extracurricular activities of student, travel, accommodation/honorarium for project viva examiners etc. DCC members approved the request to introduce the following new subheads under the head 'consortium'.

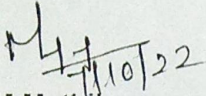
1. Faculty / staff training
2. Professional membership for faculty and students
3. Cocurricular and extra curricular activities of students
4. Travel for examiners, Resource persons
5. Honorarium / Accommodation for examiners, Resource persons

Agenda 3 -To include the changes in CO-PO mappings of R2015 and R2019

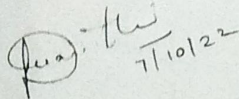
HoD informed the DCC members that few changes in the CO-PO mappings of R2015 and R2019 were made and requested for ratification and the same may be uploaded in the university website. It was approved by the DCC members.

HoD informed the DCC members that the department has applied for the NBA accreditation under Tyre-1, Cycle-2 for B.E. Electronics and Instrumentation Engineering and have submitted the e-SAR on 29.09.2022. It was also informed that the previous six year accreditation for the above mentioned UG programme has got over by 30.06.2022.

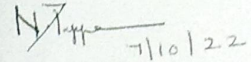
Having discussed all the agenda points mentioned herein, the HoD concluded the meeting by thanking all the DCC members for attending the meeting.



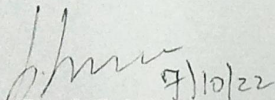
Dr. M. Mythily
Asst. Prof. (Sr.G) IE



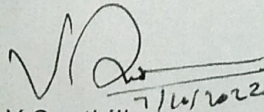
Dr. D. Vasanthi
Asso. Prof. IE



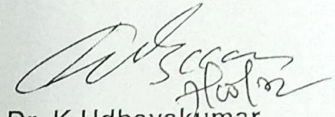
Dr. N. Pappa
Prof. IE



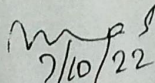
Dr. S. Srinivasan
Prof. & Head, IE



Dr. V. Senthikumar
Prof. EEE



Dr. K. Udhayakumar
Prof. EEE



Dr. S. USA
Prof. EEE & Faculty Chairperson

DEPARTMENT OF INSTRUMENTATION ENGINEERING

Minutes of the DCC Meeting held on 07/10/2022

Minutes of the DCC meeting for the Department of Instrumentation Engineering held online between 3.00 P.M and 3.45 P.M on 07/10/2022.

The following members were present for the meeting.

| Name | Designation |
|--------------------|---------------------------------|
| Dr. S.Srinivasan | Professor and Head, IE |
| Dr. S.Usa | Chairperson, Faculty of EEE, AU |
| Dr. V.Senthilkumar | Professor, Dept of EEE, AU |
| Dr. K.Udhyakumar | Professor, Dept of EEE, AU |
| Dr. N.Pappa | Professor, IE |
| Dr. D.Vasanthi | Associate Professor, IE |
| Dr. M.Mythily | Assistant Professor (Sr.Gr), IE |

The HoD welcomed the DCC members for the meeting and presented the following agenda points before the DCC members

Agenda:

1. To include the subject 'EI5201 Electronics for Analog Signal Processing- I' to the lateral entry students in the 4th Semester under R-2019.
2. To include new sub head under the Head 'Consortium'.
3. To ratify the changes in CO-PO mappings of R2015 and R2019.

Deliberate discussions were made on each agenda points and the details are as follows.

Agenda 1 - To include the subject 'EI5201 Electronics for Analog Signal Processing- I' to the lateral entry students in the 4th Semester under R-2019.

HoD brought to the notice of DCC members that around 18 lateral entry students of different diploma backgrounds have joined the department. In order to bridge the gap

with the regular students, it was decided to introduce any important subject available in the 1st two semesters of the curriculum as a bridge/additional course and the same was discussed in the faculty meeting held on 30.09.22 (Friday) at 10.00 AM in the KVN Seminar Hall. After deliberate discussions, it was proposed to introduce the subject EI5201 - Electronics for Analog Signal Processing- I as additional subject in the 4th semester (2nd semester for the lateral entry student). DCC members suggested that the course can be offered in the fourth semester and can be shown as a separate workload for the faculty handling that course.

Agenda 2 - To include new sub head under the Head 'Consortium'

HoD requested the DCC members that in order to accommodate certain expenses, new subheads may be introduced under the head 'Consortium' which may meet out expenses for faculty / staff training, professional membership fee for faculty and students, cocurricular and extracurricular activities of student, travel, accommodation/honorarium for project viva examiners etc. DCC members approved the request to introduce the following new subheads under the head 'consortium'.

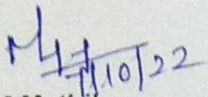
1. Faculty / staff training
2. Professional membership for faculty and students
3. Cocurricular and extra curricular activities of students
4. Travel for examiners, Resource persons
5. Honorarium / Accommodation for examiners, Resource persons

Agenda 3 -To include the changes in CO-PO mappings of R2015 and R2019

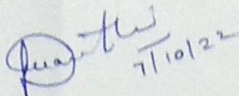
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HoD informed the DCC members that the department has applied for the NBA accreditation under Tyre-1, Cycle-2 for B.E. Electronics and Instrumentation Engineering and have submitted the e-SAR on 29.09.2022. It was also informed that the previous six year accreditation for the above mentioned UG programme has got over by 30.06.2022.

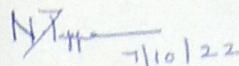
Having discussed all the agenda points mentioned herein, the HoD concluded the meeting by thanking all the DCC members for attending the meeting.


7/10/22

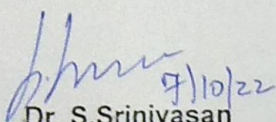
Dr. M. Mythily
Asst. Prof. (Sr.G) IE


7/10/22

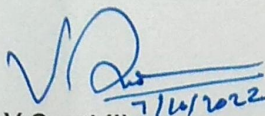
Dr. D. Vasanthi
Asso. Prof. IE


7/10/22

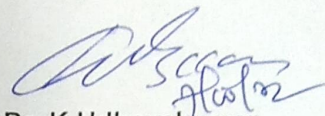
Dr. N. Pappa
Prof. IE


7/10/22

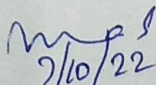
Dr. S. Srinivasan
Prof. & Head, IE


7/10/22

Dr. V. Senthilkumar
Prof. EEE


7/10/22

Dr. K. Udayakumar
Prof. EEE


7/10/22

Dr. S. USA
Prof. EEE & Faculty Chairperson

DEPARTMENT OF INSTRUMENTATION ENGINEERING

Minutes of the DCC Meeting held on 18/11/2022

Ref: 1. DCC meeting for the Department of Instrumentation Engineering held on 30.09.2022

2. Registrar Letter No.300/PD4/Misc/2021 dated 02.11.2022

Minutes of the DCC meeting for the Department of Instrumentation Engineering held between 10.00 A.M and 10.30 A.M on 18/11/2022.

The following members were present for the meeting.

| Name | Designation |
|--------------------|---------------------------------|
| Dr. S.Srinivasan | Professor and Head, IE |
| Dr. S.Usa | Chairperson, Faculty of EEE, AU |
| Dr. V.Senthilkumar | Professor, Dept of EEE, AU |
| Dr. K.Udhyakumar | Professor, Dept of EEE, AU |
| Dr. N.Pappa | Professor, IE |
| Dr. D.Vasanthi | Associate Professor, IE |
| Dr. M.Mythily | Assistant Professor (Sr.Gr), IE |

The HoD welcomed the DCC members for the meeting and presented the following agenda points before the DCC members

Agenda:

Addition of subhead under Consortium

HoD requested the DCC members to allow for few changes to be made in the subhead already proposed in vide reference cited 1 cited. The proposed subheads to accommodate certain expenses are i) Faculty / Staff Training, ii) Cocurricular and Extracurricular Activities and iii) Honorarium / Travel.

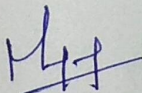
HoD requested the DCC members to allow in creating a new subhead 'Faculty Empowerment (Travel grant for participating in conferences / workshop within India

and Professional Membership) under the Head 'Consortium' as per the Vide reference cited 2nd cited.

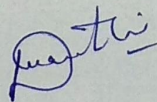
Accordingly, the DCC members approved the request to introduce the following new subheads under the Head 'consortium'.

1. Faculty / Staff Training
2. Cocurricular and Extra Curricular Activities
3. Honorarium / Travel
4. Faculty Empowerment (Travel grant for participating in conferences / workshop within India and Professional Membership)

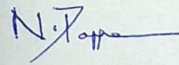
Having discussed, the HoD concluded the meeting by thanking all the DCC members for attending the meeting.



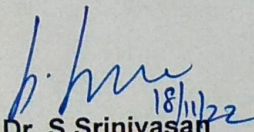
Dr. M. Mythily
Asst. Prof. (Sr.G) IE



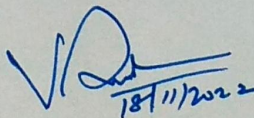
Dr. D. Vasanthi
Asso. Prof. IE



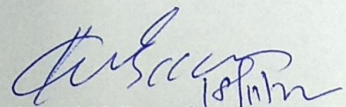
Dr. N. Pappa
Prof. IE



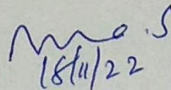
Dr. S. Srinivasan
Prof. & Head IE



Dr. V. Senthilkumar
Prof. EEE



Dr. K. Udhayakumar
Prof. EEE



Dr. S. USA
Prof. EEE & Faculty Chairperson