

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is entered on 24<sup>th</sup> January, 2013 by and between at Hyderabad:

*Dr. B.R. Ambedkar Open University located at Road No.46, Prof. G. Rami Reddy Marg, Jubilee Hills, Hyderabad – 500 033 represented by its Registrar.*

(hereinafter referred to as BRAOU which expression shall mean its successors and assignees of the one part)

- AND -

*Centre for Electronics Test Engineering, STQC Directorate, Diety located at ETDC Hyderabad, Kamalanagar, Hyderabad – 500 062 represented by its Director.*

(hereinafter referred to as BRAOU which expression shall mean its successors and assignees of the one part)


Whereas BRAOU is an Open University established under the provisions of A.P. Open University Act, 1982.

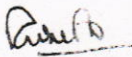
Whereas BRAOU has been offering degree courses and non-degree certificate courses for the benefit of people in various fields.

Whereas BRAOU is desirous of introducing the 02 (two) Certificate Programmes on “Certificate Programme on Electronics Interconnection Techniques” and “Advanced Certificate Programme on PLCs and SCADA Systems” through ‘distance learning-cum-contact sessions mode’ from the academic year 2013-14.

Whereas CETE Hyderabad is a Training Centre under STQC Directorate, Department of Electronics & IT, Ministry of Communications & Information Technology, Government of India engaged in conducting short term and long term training programmes in the area of Industrial Automation, Metrology, Electronics Interconnection Techniques etc., =

Whereas CETE Hyderabad has expressed its offer to BRAOU to associate with courses on “Certificate Programme on Electronics Interconnection Techniques” and “Advanced Certificate Programme on PLCs and SCADA Systems” to be introduced by BRAOU through ‘distance learning-cum-contact sessions mode’ from the academic year 2013-14.

  
**REGISTRAR**  
**Dr. B.R. AMBEDKAR OPEN UNIVERSITY**  
**JUBILEE HILLS, HYDERABAD, A.P.**

  
**R.V. SUDHAKAR**  
Director  
Centre for Electronics Test Engineering  
ETDC, STQC, Directorate, DOIT  
Min. of Comm. & IT, Govt. of India  
Kamalanagar, ECI, P.O. Hyderabad-50



Whereas both the BRAOU and CETE Hyderabad hereby mutually agrees as hereunder:

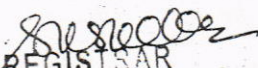
(A) **RESPONSIBILITIES:**

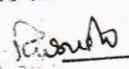
(i) **Responsibilities of BRAOU:**

1. The advertisement calling from the eligible candidates for applications in the prescribed form for admission to the "Certificate Programme on Electronics Interconnection Techniques" and "Advanced Certificate Programme on PLCs and SCADA Systems" shall be released by BRAOU in the name of both BRAOU and CETE Hyderabad.
2. The BRAOU shall prepare course brochures and application forms for admissions in association with CETE Hyderabad.
3. The BRAOU shall prepare the list of eligible candidates and forward the same to CETE Hyderabad.
4. The BRAOU shall prepare at its cost and supply to candidates the study material for the certificate courses.
5. The BRAOU shall conduct final examinations either in the premises of CETE Hyderabad or BRAOU Study Centres.
6. The BRAOU will issue the Programme Certificate to the successful candidates.

(ii) **Responsibilities of CETE Hyderabad:**

1. CETE Hyderabad shall assist the BRAOU in the scrutiny of applications and held in
  - i) Admissions
2. CETE Hyderabad shall provide one set of study material.
3. CETE Hyderabad shall conduct contact programmes and practicals for all the participants at CETE Hyderabad.
  - i) Premises and maintain attendance of candidates.
4. CETE Hyderabad shall arrange requisite number of faculty to conduct contact sessions and practicals.
5. CETE Hyderabad shall prepare assignments, examination papers and evaluate them.
6. CETE Hyderabad shall conduct practical examinations to all the candidates.

  
REGISTRAR  
Dr. B.R. AMBEDKAR OPEN UNIVERSITY  
JUBILEE HILLS, HYDERABAD, A.P.

  
R.V. SUDHAKAR  
Director  
Centre for Electronics Test Engineering  
ETDC, STQC, Directorate, DOIT  
Min. of Comm. & IT, Govt. of India  
Kandamanager, ECI, Hyderabad-52.

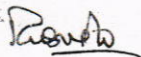


(iii) GENERAL:

1. Both parties hereto agree to conduct 02 (two) Certificate Programmes twice in a year and in that the number of candidates to be admitted into the course shall initially be fixed at 60 per Certificate Programme per run.
2. Both the parties hereto agree that an amount of **Rs.16,000/-** (Rupees six thousand only) for "Advanced Certificate Programme on PLCs and SCADA Systems" and **Rs.10,000/-** (Rupees ten thousand only) for "Certificate Programme on Electronics Interconnection Techniques" and examination fee as prescribed by BRAOU shall be collected from each candidate. Besides course fee the service tax of 12.36% on programme fee will be charged.
3. The Programme fee shall be shared by BRAOU and CETE Hyderabad in the ratio of **30:70** respectively. The programme amount along with service tax shall be collected by BRAOU in its name. BRAOU shall send to CETE Hyderabad, the amount towards its share by a Demand Draft in favour of 'PAO DIT' payable at New Delhi within 30 days of finalization of candidates list.
4. Any alterations in the terms and conditions mentioned above shall be done with the mutually consent of both the parties.
5. Both the parties hereto agree that any dispute arising out of this MOU shall be settled mutually through discussions and that in the event of their failure to settle the dispute the matter shall be referred to Arbitration in accordance with the Arbitration and Conciliation Act, 1996.
6. Both the parties hereto agree to review the MOU for every two years. The MOU can be withdrawn by both the parties with mutual consent after completion of the batch which is undergoing during that time.

In witness whereof the parties hereto have hereinto signed this MOU on the day named first above.

For & on behalf of  
Centre for Electronics Test Engineering  
Hyderabad



Director, CETE  
**R.V. SUDHAKAR**  
Director

Centre for Electronics Test Engineering  
ETDC, STQC, Directorate, DOIT

For & on behalf of  
Dr. B.R. Ambedkar Open University  
Hyderabad

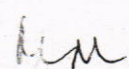
Registrar, Dr. BRAOU

  
**REGISTRAR**

**Dr. B.R. AMBEDKAR OPEN UNIVERSITY**  
JUBILEE HILLS, HYDERABAD, A.P.

In the presence of

In the presence of

  
**Director (Academic)**  
**Dr. BRAOU**



## Memorandum of Understanding

This memorandum of understanding is made on \_\_\_\_ December 2012.

Between

Dr.B.R.Ambedkar Open University, located at Road No:46, Prof G Rami Reddy Marg, Jubilee Hills, Hyderabad – 33 represented by the Registrar (hereinafter referred to as BRAOU which expression shall mean its successors and assignees of the one part)

AND

Centre for Electronics Test Engineering, STQC Directorate, Diety located at ETDC Hyderabad, Kamalanagar, Hyderabad – 62 (hereinafter to as CETE Hyd which expression shall include his successors and assignees on the other part)

Whereas BRAOU is an Open University established under the provisions of the Dr.B.R. Ambedkar Open University act 1982

And whereas BRAOU has been offering degree courses and non-degree certificate courses for the benefit of people in various fields.

And whereas is desirous of introducing following Certificate programs on “Certificate Program on Electronics Interconnection Techniques” and Advanced Certificate Program on PLCs and SCADA Systems” through ‘distance learning cum contact sessions mode’ from the academic year 2013-14

And whereas CETE Hyd is a Training Centre under STQC Directorate, Department of Electronics & IT, Ministry of Comm. & IT, Government of India engaged in conducting short term and long term training programs in the area of Industrial Automation, Metrology, Electronics Interconnection Techniques etc.,

And whereas CETE Hyd has expressed its intention to BRAOU to associate with courses on “Certificate Program on Electronics Interconnection Techniques” and Advanced Certificate Program on PLCs and SCADA Systems” to be introduced by BRAOU through ‘distance learning cum contact sessions mode’ form the academic year 2013-14.

And whereas BRAOU has agree to the same. Both BRAOU and CETE Hyd hereby agree as hereunder:

(A) Responsibilities:

(i) Responsibilities of BRAOU:



1. The advertisement calling from the eligible candidates for applications in the prescribed form for admission to the "Certificate Program on Electronics Interconnection Techniques" and Advanced Certificate Program on PLCs and SCADA Systems" shall be released by BRAOU in the name of both BRAOU and CETE Hyd
2. The BRAOU shall prepare course brochures and application forms for admission in association with CETE Hyd.
3. The BRAOU shall prepare the list of eligible candidates and forward the same to CETE Hyd
4. The BRAOU shall prepare as its cost and supply to candidates the study material for the certificate courses.
5. The BRAOU shall conduct final examination either in the premises of CETE Hyd or BRAOU
6. The BRAOU will issue Program Certificates to successful candidates

(ii) Responsibilities of CETE Hyd

1. CETE Hyd shall assist to BRAOU in the scrutiny of applications and held in
  - i. admissions
2. CETE Hyd shall provide one set of study material *practicals and lab work*
3. CETE Hyd shall conduct contact programs for all participants at CETE Hyd
  - i. premises and maintain attendance of candidates
4. CETE Hyd shall arrange requisite no. of faculty to conduct contact sessions *and practicals*
5. CETE Hyd shall prepare assignments, examination papers and evaluate them
6. CETE Hyd shall conduct practical examination to all candidates

(B) General:

1. Both parties hereto agree to conduct two certificate programs twice in year in that the number of candidates to be admitted into the course shall initially be fixed at 60 per certificate program per run.
2. Both the parties hereto agree that an amount of Rs. 16,000/- (Rupees sixteen thousand) for "Advanced Certificate Program on PLCs and SCADA Systems" and Rs.10,000/-/- (Rupees ten thousand) for "Certificate Program on Electronics

Interconnection Techniques" and examination fee as prescribed by BRAOU shall be collected from each candidate. Besides course fee the service tax of 12.36% on program fee will be charged.

3. The program fee shall be shared by BRAOU and CETE Hyd in the ratio of 30:70 respectively. The program amount along with service tax shall be collected by BRAOU in its name. BRAOU shall send to CETE Hyd the amount towards its share by a DD in favour of "PAO DIT" payable at New Delhi within 15 days of finalization of candidates list. 30
4. Both parties here to agree that any dispute arising out of this MOU shall be settled mutually through discussions and that in the event of their failure to settle the dispute the matter shall be referred to Arbitration in accordance with the Arbitration and Conciliation Act, 1996.
5. Both parties here to agree to review the MOU every two years. The MOU can be withdrawn by both parties with mutual consent after completion of the batch which is undergoing during that time

In witness whereof the parties hereto have hereinto signed this MOU



## TABLE AGENDA

**143<sup>rd</sup> FINANCE COMMITTEE MEETING (02-11-2012)**

160<sup>th</sup> Executive Council Meeting  
note ( ) 02-11-2012

Sub: - Collaborative Certificate Programmes with CETE - Reg.

This is to submit that the University has received a proposal from the Director, Centre for Electronics Test Engineering (CETE), Ministry of Communication and Information Technology, Govt. of India on 07-09-2012 pertaining to the following new collaborative Certificate Programmes to be offered jointly by the University and CETE.

### Proposed collaborative programmes:

- Certificate Program on Electronics Interconnection Techniques
- Advanced Certificate Program on PLCs and SCADA Systems

In view of the proposed collaborative programmes of Certificate Program on Electronics Interconnection Techniques and Advanced Certificate Program on PLCs and SCADA Systems, the Dept. of Physics invited the Director, CETE to have detailed discussion with the Director Academic along with the Dean, Faculty of Science. After thorough discussions, the Committee recommends that the University can have collaborative programmes of Certificate Program on Electronics Interconnection Techniques and Advanced Certificate Program on PLCs and SCADA Systems.

### About Centre for Electronics Test Engineering, Hyderabad

CETE Hyderabad is one of the five training Centres, established under STQC (*Standardisation Testing & Quality Certificate*) Directorate, Department of Electronics & Information Technology. The objective of CETEs is to enhance the skill of technological manpower in the Electronics and related area. Training courses conducted by CETEs are demand driven and highly practice oriented.

### Resources in CETE

- Facilitated Class rooms with state of art technology equipment
- Highly qualified and experienced faculty who are certified as trainers by IPC, USA



## **Types of Services**

The services provided by this centre are mainly in two areas viz. Training and Consultancy. The training programs are of short and long term duration ranging from 3 days to 3 months and are designed keeping in view needs of the industry.

## **Training Services**

### **Key areas of training**

- Industrial Automation
- Test Engineering
- Metrology
- Electronic Manufacturing
- Quality Assurance & Management Courses

## **Support Services**

CETE, Hyderabad, in addition to training also offers consultancy services to industries in the following areas:

- Automation (System design, programming & troubleshooting of PLCs)
- EMT & Interconnection Technology
- Setting up of Calibration and Testing Laboratory ESD Management

## **Training Methodology**

The training methodology relies mainly on practicals, experimentation, case studies and team approach in problem solving apart from providing necessary theoretical background. The training services are supported by comprehensive training materials and Visual programs. The latest didactic methods and PETRA concepts are being implemented in the training programs

## **Profile of Faculty**

- IPC USA Certified Trainers
- Trained in Leading National and International institutes in Electronics Manufacturing Technology
- Certified trainer in the area of Industrial Automation
- More than 25 years of experienced in training
- Strong educational background (Graduate /Post graduate Engineers in Electronic/Computer Science /Information Technology)
- Wide professional exposure both in India and abroad

## **STQC - CETE Client Profile – Training & Support Services**

CETE has conducted training programs for various industries like Telecom, Automobiles, Manufacturing, Process Industries, Pharmaceutical, Government and Public Sector Undertakings etc in the above technological areas.



## Justification for proposal to launch new collaborative programmes

Electronics dominate the world today. For the past twenty years, so many improvements and advancements in technology have created a world which relies on electronic services and communication. Nowadays, it is not uncommon to own numerous electronics for one reason or another. All of them have a purpose and many of them seem quite necessary in day to day lives of people.

The concept behind offering these programmes is to impart knowledge based skills in the areas of Electronics and Test engineering. Since the proposed courses are job oriented and skill based there is a great importance and demand for these courses in the society.

### About the Program

- **Course Duration** : For both courses the duration will be 6 months including examination
- **Mode of Instruction** : English
- **Structure of the Course**: First Course consists of 5 modules and second course consists of 4 modules.
- **Contact sessions** will be held at Centre for Electronics Test Engineering, ETDC Complex, Kamalanagar, Near ECIL X Roads, Hyderabad – 500062
- **Evaluation**: The candidates have to submit 2 assignments based on program material, reference books and contact programs. 25% marks are allotted to assignments. Attendance for contact programs is compulsory. 50% of marks allotted to theory examination and another 25% for practical test.
- **Program Fee**: For Certificate Program on Electronics Interconnection Techniques, the fee will be Rs 10,000/- and For Advanced Certificate Program on PLCs and SCADA Systems, the fee will be Rs 16,000/- plus Rs.12.36% service tax per participant for both course which shall be shared between BRAOU and STQC as per the formula stated below.
- **Financial terms** : The course fee collected from participants may be divided among BRAOU and CETE as per following ratio
  - BRAOU - 30% of course fee and examination fee if any (other than admission fee)
  - CETE - 70% of course fee and examination fee if any

The share of CETE may be paid by Demand Draft payable in favour of "Pay and Accounts Officer, Department of Information Technology" payable at Delhi

The share of the CETE may be paid within 15 days after finalization of admission list of participants



- **Terms for conducting Training Programs**

**Responsibility of BRAOU**

- a) Marketing (advertisement)/Calling for applications
- b) Preparation of brochure and application form for admissions
- c) Select and prepare eligible candidates and forward the same to CETE
- d) Shall print and supply study material for participants
- e) Shall conduct examination (theory) either in the premises of BRAOU or CETE
- f) Shall issue program certificate to successfully candidates

**Responsibility of the training organization (CETE-STQC)**

- a) Assist BRAOU in scrutiny if applications and selections
- b) Provide one set of course material
- c) Conduct contact programs for all participants at CETE premises
- d) Arrange requisite no. of faculty as CETE to conduct contact sessions
- e) Prepare assignments, Examination papers and evaluate them.
- f) Conduct practical examination

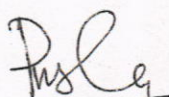
- **Validity of the proposal:**

The proposal is valid for two years and will be reviewed after every two years by both parties.

The MOU can be withdrawn by both parties with mutual consent after completion of the batch which is undergoing during that time

### **MATTER FOR CONSIDERATION**

To consider the proposal and to accord administrative approval to offer Certificate programmes on **Electronics Interconnection Techniques** and Advanced Certificate Programme on **PLCs and SCADA** in collaboration with CETE, a Central Government Organization from the academic year 2012-2013 by sharing the resources in the ratio of 30% and 70% by Dr.BRAOU and CETE respectively.

  
HOD  
PHYSICS

  
DEAN  
(FS)

  
DIRECTOR  
(ACADEMIC)

  
REGISTRAR

  
VICE-CHANCELLOR





Government of India  
Ministry of Communications & Information Technology  
Department of Information Technology  
STQC Directorate  
Centre for Electronics Test Engineering

भारत सरकार  
संचार एवं सूचना प्रौद्योगिकी मंत्रालय  
सूचना प्रौद्योगिकी विभाग  
मा.प.गु.नि निर्देशालय  
इलेक्ट्रॉनिकी परीक्षण इंजीनियरिंग केन्द्र

2(1)/CETE(H)/Trg-DST/2011-12/ 446

15/03/2012

Ref: \_\_\_\_\_  
To  
The Director  
Dr.B.R.Ambedkar Open University  
Prof.G.Ram Reddy Marg  
Road No:46, Jubilee Hills  
Hyderabad -500033.

Date: \_\_\_\_\_

**Sub:- Proposal for offering joint-courses for technical/engineering students through BRAOU – Registering CETE as training partner - Reg.**

Sir,

Centre for Electronics Test Engineering (CETE), Hyderabad is a professional training centre established in the year 1995 under STQC Directorate, Department of Electronics & Information Technology, Govt. of India with an objective to conduct knowledge-based, technology upgradation courses in the areas of Electronics Manufacturing Technology, Industrial Automation, Metrology, Testing Techniques, Quality Management Systems etc., for various Industries/Institutions and students.

Since its establishment, this centre has conducted many long-term courses for the students of ITI/Diploma/B.Sc./B.Tech. with Electronics/Electrical/Instrumentation background. The courses are more of practical-oriented and designed to bridge the gap between academics to industry. The following courses are being proposed to offer jointly with BRAOU for the benefit of the student society either as full-time or part-time.

Sl. No.	Name of the course	Duration	Eligibility criteria
01	Post Graduate Diploma in Industrial Automation	One year	Diploma or B.Tech. in ECE/EEE/EI OR B.Sc./M.Sc. in Electronics
02	Certificate course in Electronics Manufacturing Technology	Six months	ITI / Diploma in Electronics OR Intermediate(Physics)/ B.Sc. in Electronics

These courses are job-oriented and will contribute to the goals of societal development and improvement in the quality of human life through application of knowledge.

Hence, it is requested kindly to inform us the required modalities for conducting the above courses jointly with BRAOU. We enclose this centres' brochure for your kind information.

Thanking you,

to the Director (Acad/Pl)  
17/3/12

Yours faithfully,

(R.V.SUDHAKAR)  
DIRECTOR

Copy to: The Director General, STQC Dte., DOE&IT, New Delhi  
Kind attn: Sh.Rakesh Maheshwari

ETDC Complex, Kamalanagar, ECIL Post, Hyderabad - 500 062

इ.टी.डी.सी. काम्पलेक्स, कमला नगर, ई.सी.आई.एल. पोस्ट, हैदराबाद- ५०० ०६२

Ph : 040-27181180, 27181178, 27181170, Tel / Fax : 040-27122942,

e-mail : cetehy@stqc.nic.in website : www.stqc.nic.in

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Government of India  
Ministry of Communications & Information Technology  
Department of Information Technology  
STQC Directorate  
Centre for Electronics Test Engineering

भारत सरकार  
संचार एवं सूचना प्रौद्योगिकी मंत्रालय  
सूचना प्रौद्योगिकी विभाग  
मा.प.गु.नि. निर्देशालय  
इलेक्ट्रॉनिकी परीक्षण इंजीनियरिंग केन्द्र

Ref: 1(27)/CETE Hyd/2012 / 635

Date 07.09.2012

To

The Vice chancellor  
Dr.B.R.Ambedkar Open University  
Road No:46, Jubilee Hills  
Hyderabad – 500 033

Sub: Proposal for conducting joint training programs – reg.

Dear Sir,

We sincerely thank you for giving us an opportunity to present the activities of CETE Hyderabad (under STQC Directorate, Ministry of Comm. & Information Technology, Govt. of India) during the meeting held on 1<sup>st</sup> August 2012.

As discussed we are enclosing herewith a proposal for conducting two joint training programs based on distance learning mode in association with your Esteemed University.

You are requested to kindly go through and approve the same so that further course of action can be worked out jointly.

Thanking you,

Yours faithfully,

(R.V.Sudhakar)  
DIRECTOR

R.V. SUDHAKAR  
Director

Centre for Electronics Test Engineering  
ETDC, STQC. Directorate, DOIT  
Min. of Comm. & IT, Govt. of India  
Kamalanagar, ECIL P.O. Hyderabad-62.

Kindly examine  
& put f.w.a  
2/09  
24/09  
25/9/12

Dean Faculty of Science & Tech  
HOD, Physics, P. N. A  
25/9/12

790/100A/12  
22/9/12

ETDC Complex, Kamalanagar, ECIL Post, Hyderabad - 500 062.  
इ.टी.डी.सी. काम्पलेक्स, कमला नगर, ई.सी.आई.एल. पोस्ट, हैदराबाद- ५०० ०६२.  
Ph : 040-27181180, 27181178, 27181170, Tel / Fax : 040-27122942,  
e-mail : cetehy@stqc.nic.in website : www.stqc.nic.in