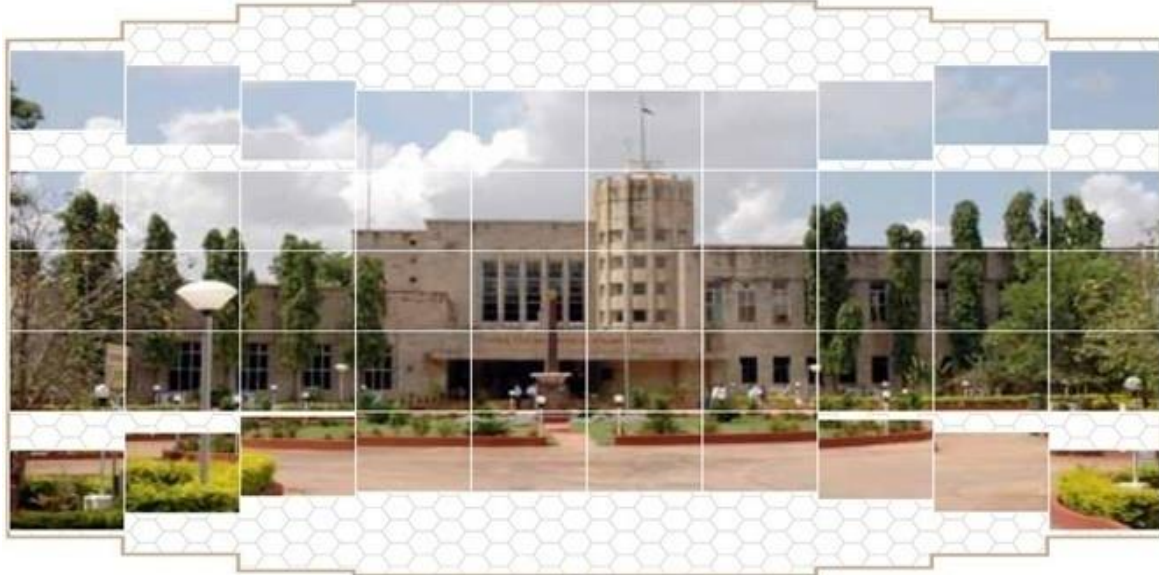




**Under CSIR Integrated Skill Initiative**  
**SKILL DEVELOPMENT TRAINING PROPOSED BY SKILL**  
**DEVELOPMENT GROUP, CSIR-CECRI**



**उद्योग/ शिक्षाउन्मुखप्रौद्योगिकी / पुनश्चर्यापाठ्यक्रम**  
**SKILL DEVELOPMENT TRAINING CALENDAR FOR 2020 - 2021**  
**प्रशिक्षणकार्यक्रम 2020 - 2021**



**CSIR-CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE**

(Council of Scientific & Industrial Research)

**KARAIKUDI - 630003, TAMILNADU, INDIA**

**सीएसआईआर - केन्द्रीयविद्युतअनुसंधानसंस्थान**

(वैज्ञानिकतथाऔद्योगिकअनुसंधानपरिषद)

कारैकुडी- 630003, तमिलनाडु, भारत

[www.cecri.res.in](http://www.cecri.res.in)

**ONLINE SKILL DEVELOPMENT TRAINING PROGRAMME FOR- 2020- 2021**

**Fees:** There is no participation fee and the online training is free of cost. The link for joining each programme will be provided to all the participants in the previous day of the training.

Sl. No.	Title of the course	Duration	Qualifications
1	Textile and tanneries: Waste water treatment technologies	<b>One week 21-25 in December, 2020</b>	ITI/Polytechnic/Diploma pass or fail
2	Waste-water treatment technologies	<b>Two Week 21-30 in December, 2020</b>	Bachelor Degree in Science or Engineering sciences
3	Operation and maintenance of analytical instruments	<b>One Week 18-22 January, 2021</b>	Bachelor Degree in Science or Engineering sciences
4	Bio-sensor: Design and application	<b>One Week 18-22 January, 2021</b>	Bachelor Degree in Science or Engineering sciences/Diploma
5	Electrochemical power systems: Lithium ion battery: science and technology	<b>One Week 18-22 January, 2021</b>	10th/12th pass or fail/ ITI/Polytechnic/Diploma pass or fail or
6	Electrochemical power systems: Lithium ion battery: science and technology	<b>Two weeks 18-29 in January, 2021</b>	Bachelor Degree in Science or Engineering sciences
7	Electro-analytical Techniques for (Electro) Catalytic and (Bio) Sensing Applications	<b>One Week 25-29 January, 2021</b>	Bachelor Degree in Science or Engineering sciences/ Diploma
8	Corrosion Protection technologies for construction of buildings & structures	<b>One weeks 25 - 29 in January, 2021</b>	ITI/Polytechnic/Diploma pass or fail
9	Electroplating and Metal Finishing	<b>One weeks 8 -12 in February, 2021</b>	ITI/Polytechnic/Diploma pass or fail
10	Industrial Corrosion problems and Preventive methods	<b>One weeks 8 - 12 in February, 2021</b>	10th/12th pass or fail/ ITI/Polytechnic/Diploma pass or fail
11	Paints and coatings for corrosion protection	<b>One weeks 22-26 in March, 2021</b>	ITI/Polytechnic/Diploma pass or fail
12	Civil construction practices [in carpentry, plumbing and waste water treatment (STP & RO plant operation)]	<b>One Week 15-19 in March, 2021</b>	ITI/Polytechnic/Diploma pass or fail
13	Electrochemical Power Systems- Lead Acid Battery: Care and maintenance	<b>One Week 15-19 in March, 2021</b>	10th/12th pass or fail/ ITI/Polytechnic/Diploma pass or fail or
14	Electrochemical Power Systems-Lead Acid Battery: Care and maintenance	<b>Two weeks 15-26 in March, 2021</b>	Bachelor Degree in Science or Engineering sciences

The training certificate will be issued after satisfactory completion of each programme.

Address for sending application forms and further inquiries:

**In-charge**  
**Skill Development Group (S&T)**  
**CSIR-CECRI, Karaikudi - 630003 (TN)**  
**Phone: 04565 - 241471/ 241521**  
**Fax: 04565 - 227713/ 227779**  
**E- mail: [skill@cecri.res.in](mailto:skill@cecri.res.in)**  
**For details please contact: Programme coordinator**  
**Dr. S.M. Rajendran, Senior Principal Scientist      Cell: +91-8675677493**



सीएसआईआर-केन्द्रीय विद्युतरसायन अनुसंधान संस्थान  
**CSIR-CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE**  
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद् Council of Scientific & Industrial Research)  
कारैकुडी-630 003, तमिलनाडु, भारत Karaikudi-630 003, Tamil Nadu, India

**CSIR-CECRI**

*Touching Lives Through Electrochemistry.*

Date: 15.10.2020

To

The Principal  
Dr. Umayal Ramanathan College for Women  
Karaikudi-630003

Dear Madam,

Greetings.....!!!

As per your request, we are glad to collaborate with Dr. Umayal Ramanathan College for Women, to provide Skill-oriented Certificate Courses to the students in online mode. The online skill development training programme for the academic year 2020 - 21 is annexed for your reference. Interested students can participate in the courses, by sending their application form and the necessary supporting documents on [skill@cecri.res.in](mailto:skill@cecri.res.in)

The prime objective of the enlisted Skill-oriented Certificate Courses is to provide trainings to student's community for their skill upgradation and also to equip them with better technical and entrepreneurial skills.

Thanking You.

With Kind Regards,



(S. M. Rajendran)

डॉ. एस. एम. राजेंद्रन / Dr. S. M. RAJENDRAN  
प्रमुख अन्वेषक / Principal Investigator  
सीएसआईआर - एकीकृत कौशल पहल  
CSIR - Integrated Skill Initiative  
सीएसआईआर - केन्द्रीय विद्युतरसायन अनुसंधान संस्थान  
CSIR - Central Electrochemical Research Institute  
कारैकुडी - 630 003, तमिलनाडु - भारत  
Karaikudi - 630 003, Tamilnadu - India

+91(4565) 241223, 241502

director@cecri.res.in

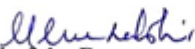
+91(4565) 227779, 227205

www.cecri.res.in

Dr.UmayalRamanathan College for Women, Karaikudi.  
 Accredited with B+ Grade by NAAC  
 Affiliated to Alagappa University  
 (Run by Dr.AlagappaChettiar Educational Trust)  
 Department of Biotechnology, Physics & Electronics and Communication  
*Circular* 05.12.2020

- CSIR – CECERI is going to offer the following Skill Development Training Programmes for the Students.
- There is no participation fee and the online training is free of cost.
- The link for joining each Programme will be provided to all the participants in the previous day of the training.
- The training certificate will be issued after satisfactory completion of each programme.
- All the II & III year students are informed to register their names in any one of the course according to their interest.
- The application form is attached. Kindly fill it and attach the necessary documents
  - i) XII Mark Statement / Last Semester mark Statement
  - ii) Aadhar Card
  - iii) Fix your Photo
 and send the scanned copy to [physics.urew@gmail.com](mailto:physics.urew@gmail.com)  
 or submit the application to the respective class in charge

S. No.	Name of the Course	Duration
1.	Waste-water treatment technologies	<i>Two Week 21-30, December, 2020</i>
2.	Operation and maintenance of analytical instruments	<i>One Week 18-22, January, 2021</i>
3.	Bio-sensor: Design and application	<i>One Week 18-22, January, 2021</i>
4.	Electrochemical power systems: Lithium ion battery: science and Technology	<i>One Week 18-22, January, 2021</i>
5.	Electro-analytical Techniques for (Electro) Catalytic and (Bio) Sensing Applications	<i>One Week 25-29, January, 2021</i>
6.	Electroplating and Metal Finishing	<i>One week 8 -12, February, 2021</i>
7.	Paints and coatings for corrosion protection	<i>One week 22-26, March, 2021</i>

  
 Head of the Department  
 Physics & EC

  
 Head of the Department  
 Biotechnology



சி.எஸ்.ஐ.ஆர்.- மத்திய மின்வேதியியல் ஆய்வகம்  
CSIR- CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE  
காரைக்குடி / KARAIKUDI – 630 003  
பயிற்சி பிரிவுகள் / Training Courses



விண்ணப்பப் படிவம்  
Application Form

உங்களது தகுதிக்கான பயிற்சி பாடப்பிரிவினை தேர்வு செய்ய அதற்கான கட்டத்தில் [✓] செய்யவும்.  
Select your qualified training course please put [✓] mark in the appropriate column.

வரிசை எண் Sl. No.	பயிற்சி பாடப்பிரிவின் பெயர் Name of the training course	குறியீடு [✓]
1		

- விண்ணப்பதாரரின் பெயர் :  
Name of the Applicant :
- தந்தை / கணவரின் பெயர் :  
Father / Husband's Name :
- பாலினம் / Gender :
- பிறந்த தேதி மற்றும் வயது :  
Date of Birth & Age (as on 01.07.2019)
- ஆதார் எண் / Aadhaar ID No. :  
நகல் இணைக்கவும் / Attach copy
- அஞ்சல் முகவரி / Postal Address: நிலையான முகவரி / Permanent Address:

Affix your  
recent  
passport  
size  
photograph

- அஞ்சல் எண் / Pincode:  
கைபேசி எண் / Mobile No.:
- அஞ்சல் எண் / Pincode:  
மின்னஞ்சல் / Email id:
- குடியுரிமை / Nationality :
- திருமண நிலை / Marital Status :  
திருமணம் ஆனவர் / ஆகாதவர்  
Married / Unmarried
- வகுப்பு மற்றும் பிரிவு / Category :  
நகல் இணைக்கவும் / Attach copy  
FC / BC / MBC / DNC / SC / ST

10. கல்வித் தகுதி / Educational Qualification :

படிப்பு / Standard	பள்ளி / கல்லூரி பெயர் / School / College Name	பாடங்கள் / Subjects	மதிப்பெண் சதவிகிதம் / % of Marks	படித்த ஆண்டு / Year of Study
எட்டாம் வகுப்பு / 8 <sup>th</sup> Std.				
பத்தாம் வகுப்பு / 10 <sup>th</sup> Std.				
பனிரெண்டாம் வகுப்பு / 12 <sup>th</sup> Std.				
தொழிற்பயிற்சி / ITI / Diploma				

11. நகல் இணைப்புகள் / List of Documents to be enclosed: (Xerox copies only)

- பத்தாம் வகுப்பு மதிப்பெண் சான்றிதழ் / X<sup>th</sup> Std Mark statement
- பனிரெண்டாம் வகுப்பு மதிப்பெண் சான்றிதழ் / XII<sup>th</sup> Std Mark statement
- பள்ளி மாற்றுச்சான்றிதழ் / School Transfer Certificate
- பட்டயச்சான்றிதழ் / Diploma Certificate
- சமூகச் சான்றிதழ் / Community Certificate
- அடையாள மற்றும் முகவரிச்சான்றிதழ் / ID & Address Proof
- ஆதார் / Aadhar ID

12. பிற விவரங்கள் / Any other information:

உறுதிமொழி / Declaration

மேற்குறிப்பிட்ட விவரங்கள் அனைத்தும் சரியானவை என்றும், தவறு ஏதேனும் இருப்பின் என்னுடைய விண்ணப்பம் நிராகரிக்கப்படுவதற்கு உட்படுவேன் என்றும் உறுதி கூறுகிறேன்.

I hereby declare that, all the particulars made in the application are true to the best of my knowledge and belief. In the event of any information being found false at any stage, my candidature is liable to be rejected.

இடம் / Place: .....

விண்ணப்பதாரரின் கையொப்பம்  
Signature of the Applicant

தேதி / Date: .....

Dr. Umayal Ramanathan College for Women, Karaikudi  
 Accredited with B+ Grade by NAAC  
 Affiliated to Alagappa University  
 (Run by Dr. Alagappa Chettiar Educational Trust)

CSIR – CECRI – Skill Development Course Students' Enrollment

Course Title: Electrochemical Power Systems: Lithium Ion Battery: Science and Technology  
 Duration: 18th – 22nd, January, 2021 (One Week)

S. No.	Register No.	Name of the Student	Class	Signature of the Student
1.	2918122001	Aarthi R	III – B.Sc., Physics	<i>Aarthi R</i>
2.	2918122037	Suvetha M		<i>Suvetha M</i>
3.	2918122010	S. Chandragrace		<i>S. Chandragrace</i>
4.	2918122014	M. Gayathri		<i>M. Gayathri</i>
5.	2918122015	S. Gowri		<i>S. Gowri</i>
6.	2918122018	G. Kasthuri		<i>G. Kasthuri</i>
7.	2919122022	MariaDharathi E	II – B.Sc., Physics	<i>F. Maria Dharathi</i>
8.	2919122033	Subalakshmi .M		<i>M. Subalakshmi .M</i>
9.	2918141005	Krishnaveni S	III – B.Sc., Electronics and Communication	<i>Krishnaveni S</i>
10.	2918141007	Nivetha R		<i>Nivetha R</i>
11.	2918141010	M. Sonalika		<i>M. Sonalika</i>
12.	2918141011	D. Sneha		<i>Sneha</i>
13.	2918141009	SnegaSharmiliM.R		<i>Snyaashanli M.R</i>
14.	2919141006	Sarathapriya.K	II – B.Sc., Electronics and Communication	<i>Sarathapriya .K</i>

*MS. Kalaini*  
 Staff in Charge

*M. Meehanthi*  
 Head of the Department  
 (Physics & EC)

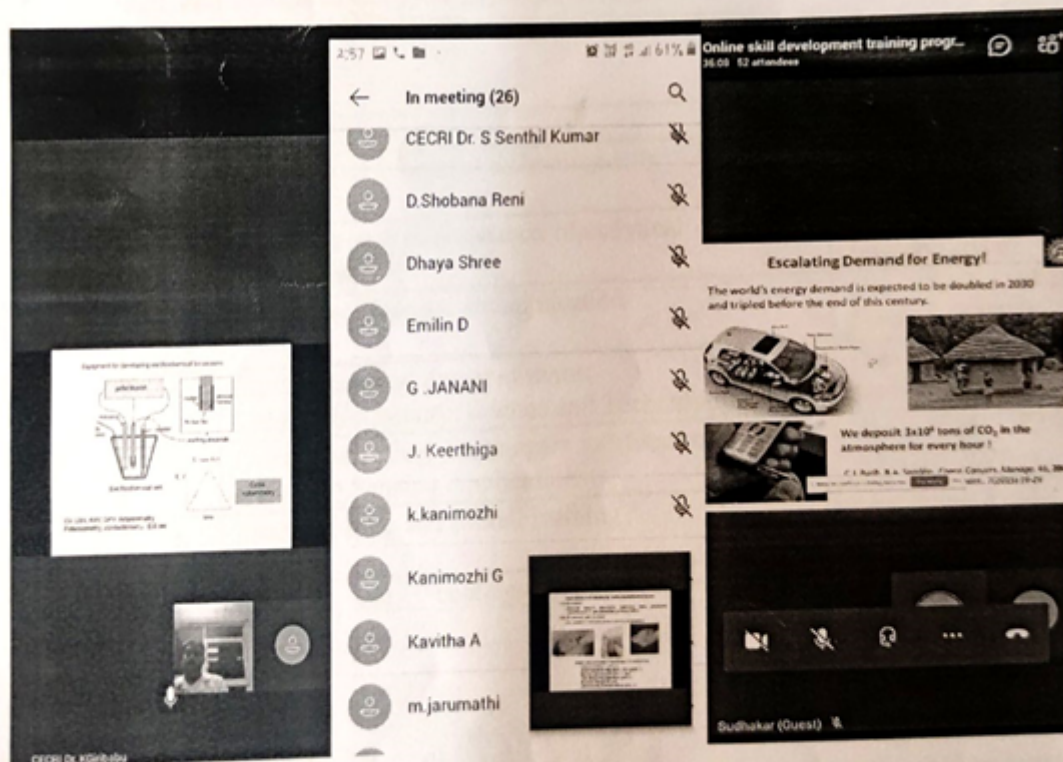
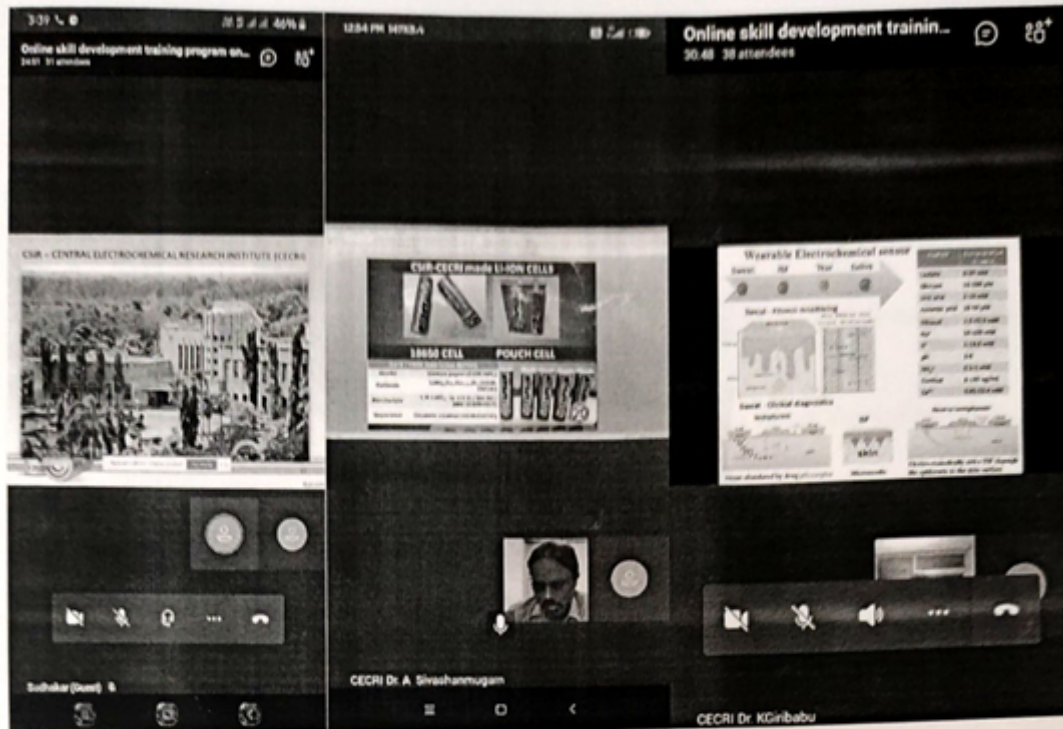
Dr.UmayalRamanathan College for Women, Karaikudi.  
Accredited with B+ Grade by NAAC  
Affiliated to Alagappa University  
(Run by Dr.AlagappaChettiar Educational Trust)  
Departments of Physics & Electronics and Communication and Biotechnology  
*Skill Training Course Report*

- CSIR – CECERI offers a list Skill Development Training Programmes for the Students in online.
- Departments of Physics & Electronics and Communication and Biotechnology students are informed to attend the courses.
- Students attended the following courses and received the certificates

S. No.	Title of the Course	Duration	No. of students attended
1.	Waste Water Treatment Technologies	Two Week 21 - 30, December, 2020	14
2.	Operation and Maintenance of Analytical Instruments	One Week 18 - 22, January, 2021	30
3.	Bio-sensor: Design and Application	One Week 18 - 22, January, 2021	23
4.	Electrochemical Power Systems: Lithium Ion Battery: Science and Technology	One Week 18 - 22, January, 2021	8
5.	Electro-analytical Techniques for (Electro) Catalytic and (Bio) Sensing Applications	One Week 25 - 29, January, 2021	12
6.	Electroplating and Metal Finishing	One Week 8 - 12, February, 2021	11
7.	Paints and Coatings for Corrosion Protection	One Week 22 - 26, March, 2021	2
8.	Photolithography based Micro Fabrication of Sensors	One Week 17 - 21, May, 2021	40
9.	Surface Coatings for Value Added Products: Decorative and Functional Applications	One Week 3 - 7, May, 2021	7

- The sessions were brain storming and motivated the students towards higher education.
- Students gained lot of knowledge in the cutting edge technologies.
- These courses provide a platform for the students to know the nature of research going in the Central Research Institutes.





*U. Senthil Kumar*  
 Head of the Department  
 Physics & EC

*S. Jayashan*  
 Principal

*J. Senthil Kumar*  
 Head of the Department  
 Biotechnology



सीएसआईआर-केन्द्रीय विद्युतरसायन अनुसंधान संस्थान  
**CSIR-CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE**  
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद् Council of Scientific & Industrial Research)  
कारैकुडी-630 003, तमिलनाडु, भारत Karaikudi-630 003, Tamil Nadu, India

**CSIR-CECRI**

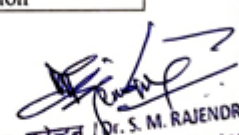
*Teaching Lives Through Electrochemistry.*

Date: 26. 01. 2021

**Skill Development Training Programme (2020-2021)**

The following students of Dr.Umayal Ramanathan College for Women, Karaikudi attended the online skill development training programme on "*Electrochemical Power Sources: Lithium-ion battery: Science and Technology*" conducted at CSIR-CECRI, Karaikudi during January, 18-22, 2021 (One Week) and the certificates were issued to the participants on their satisfactory completion of the programme.

S. No.	Name of the Student	Class
1.	Aarthi R	III – B.Sc., Physics
2.	Suvetha M	
3.	Mariadharathi E	
4.	Subalakshmi .M	II – B.Sc., Physics
5.	Krishnaveni S	III – B.Sc., Electronics and Communication
6.	Nivetha R	
7.	SnegaSharmiliM.R	
8.	Sarathpriya.K	II – B.Sc., Electronics and Communication

  
डॉ. एस. एम. राजेन्द्रन / Dr. S. M. RAJENDRAN  
प्रमुख अन्वेषक / Principal Investigator  
सीएसआईआर - एकीकृत कौशल पहल  
CSIR - Integrated Skill Initiative  
सीएसआईआर - केन्द्रीय विद्युतरसायन अनुसंधान संस्थान  
CSIR - Central Electrochemical Research Institute  
कारैकुडी - 630 003, तमिलनाडु - भारत  
Karaikudi - 630 003, Tamilnadu - India



सीएसआईआर-केंद्रीय विद्युतरसायन अनुसंधान संस्थान  
CSIR-Central Electrochemical Research Institute

कारैकुडी - 630003, तमिल नाडु Karaikudi - 630 003, Tamil Nadu



वर्चुअल  
Virtual

कौशल विकास प्रशिक्षण कार्यक्रम  
Skill Development Training Programme

(सीएसआईआर एकीकृत कौशल पहल के तहत)  
(Under CSIR Integrated Skill Initiative)

CERTIFICATE

This is to certify that S. Krishnaveni

D/o Sooriyanarayanan K. Aadhaar No. 6012 8051 8773 has

successfully completed the Skill Development Training Programme on

**Electrochemical Power Sources- Li-ion Battery:**

**Science & Technology**

conducted through virtual mode by

CSIR-Central Electrochemical Research Institute, Karaikudi-630003

from 18.01.2021 to 22.01.2021

समन्वयक - तकनीकी

Coordinator  
Technical

समन्वयक - नोडल

Coordinator  
Nodal

निदेशक

Director  
CSIR-CECRI