



# Centre for Electronic Governance

(Established by Government of Rajasthan)

Near Govt. R.C. Khaitan Polytechnic College, Jhalana Doongri

Jaipur- 302004, Ph:-2702344, Email: directorceg@gmail.com

Website: www.ceg.rajasthan.gov.in, www.cegrajasthan.org



E-mail

दिनांक: 27.11.2019

क्रमांक / सीईजी / एफ(1387) / 2019 / 1477

डीन / टैक्यूप-III कॉर्डिनेटर,

युनिवर्सिटी कॉलेज ऑफ इंजीनियरिंग, आरटीयू कोटा / सीटीईई, उदयपुर / एमपीयूएटी, उदयपुर / एमबीएम इंजीनियरिंग कॉलेज, जोधपुर / बीकानेर टेक्निकल युनिवर्सिटी, बीकानेर (सीईटी, बीकानेर)।

प्राचार्य,

अभियांत्रिकी महाविद्यालय, अजमेर / महिला अजमेर / भरतपुर / बीकानेर / बांसवाडा / धौलपुर / करौली / बाडमेर / झालावाड़ा / एमएलवीटीईसी, भीलवाड़ा।

**विषय:-** सीईजी द्वारा टैक्यूप-III के अन्तर्गत “Network cum Linux System Administration” कोर्स पर स्टॉफ (तकनीकी) डवलपमेन्ट कार्यक्रम आयोजित किये जाने के सम्बन्ध में।

**संदर्भ:-** 1. संयुक्त सचिव त.शि का पत्रांक 23(14)त.शि./06-I, जयपुर दिनांक 25/09/2019।

2. संयुक्त सचिव त.शि का पत्रांक 1(39)त.शि./2004पार्ट, जयपुर दिनांक 11/11/2019।

महोदय,

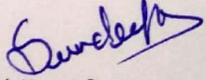
उपरोक्त विषयान्तर्गत एवं संदर्भित पत्र के क्रम में निवेदन है कि संयुक्त सचिव तकनीकी शिक्षा से उपरोक्त संदर्भित पत्रों में प्राप्त अनुमतिनुसार राज्य के अभियांत्रिकी महाविद्यालयों हेतु टैक्यूप-III के अन्तर्गत स्टॉफ डवलपमेन्ट कार्यक्रम आयोजित किए जाने हैं। इसी क्रम में दिनांक 02.12.2019 से 06.12.2019 तक सीईजी कार्यालय में “Network cum Linux System Administration” कोर्स पर 05 दिवसीय स्टॉफ डवलपमेन्ट कार्यक्रम आयोजित किया जा रहा है, जो कि तकनीकी अशैक्षणिक सदस्यों के लिए उपयोगी है।

इस कार्यक्रम का प्रशिक्षण शुल्क राशि रुपये 18,500/- प्रति प्रतिभागी है। इस शुल्क में भोजन, आवास इत्यादि शामिल है। इसका भुगतान संयुक्त सचिव तकनीकी शिक्षा से उपरोक्त संदर्भित पत्रों में प्राप्त अनुमतिनुसार सम्बंधित महाविद्यालयों द्वारा TEQIP-III / संस्थान के अन्य मद से डिमान्ड ड्राफ्ट अथवा NEFT द्वारा “निदेशक, सेन्टर फॉर इलैक्ट्रॉनिक गर्वनेन्स, जयपुर” के खाते में ऑनलाईन स्थानांतरित करने किया जाना है। एनईएफटी हेतु बैंक खाते का विवरण निम्न है।

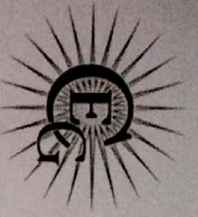
Account Holder Name:-	Director, Centre For Electronic Governance, Jaipur
Bank Account No. :-	83032010015882
Bank Name :-	Syndicate Bank
Bank Branch Name :-	Jhalana Doongri, Jaipur
IFSC Code :-	SYNB0008303
MICR Code :-	302025004

अतः आपसे निवेदन है कि अपने संस्थान से न्यूनतम 03 सदस्यों को इस कार्यक्रम में भाग लेने हेतु निर्देशित करें एवं आपके संस्थान से भाग लेने वाले सभी प्रतिभागियों की सूची दिनांक 30.11.19 प्रातः 11.00 बजे तक ई-मेल (directorceg@gmail.com) पर भेजने का श्रम करावें। यह प्रशिक्षण कार्यक्रम राज्य सरकार अनुमतिनुसार आयोजित किया जा रहा है अतः इसे उच्च प्राथमिकता प्रदान करें।

संलग्न:- समय सारणी एवं एफडीपी ब्यशर।

  
(डॉ. संदीप कुमार)  
निदेशक





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 Near Govt. R.C. Khaitan Polytechnic College, Jhalana Doongri,  
 Jaipur- 302004 Phone: 0141-2702344, Website: [www.ceg.rajasthan.gov.in](http://www.ceg.rajasthan.gov.in)  
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## TIME-TABLE CENTRE FOR ELECTRONIC GOVERNANCE, JAIPUR

Organized

Staff Development Programme on "Network cum Linux System Administration"  
 (From 02.12.2019 to 06.12.2019)

Date & Time	10:00 AM - 11:15 AM	11:30 AM - 01:00 PM	02:00 PM - 03:00 PM	03:15 PM - 05:00 PM
02.12.19	<b>Registration &amp; Inauguration</b>	Basic of File System, Installation of Centos Linux, Start with GNOME Desktop, Access & Manage files from the command line as well GUI	Manage local Linux users and groups, Linux file system permission, monitor & manages the processes	List running services and daemons, Install and update software packages using RPM
		<b>Hand-on practical</b>	<b>Hand-on practical</b>	<b>Hand-on practical</b>
03.12.19	Configure Yum Client , Analyze logs, Configure network in Linux, Hostname in Linux, DNS Aliases	Archive & Back up files and copy them from one machine to another machine using SCP	Use regular expressions with grep, Create and Edit text files with vim	Control file access using (ACL) & Task Scheduling in Linux
		<b>Hand-on practical</b>	<b>Hand-on practical</b>	<b>Hand-on practical</b>
04.12.19	Introduction to <i>SELinux</i> & <i>iptables</i> (Software Firewall)	Manage Yum Server for Client	Introduction to FTP Server, Use& Configuration	Web Hosting solution using LAMP (Linux, apache, Php & MySQL )
		<b>Hand-on practical</b>	<b>Hand-on practical session</b>	<b>Hand-on practical</b>
05.12.19	Introduction to Networking, Communications with Data Networks and the Internet, OSI Application Layer, Introduction to Routing and Packet Forwarding	Configuring and Testing Your Network	OSI Transport Layer, OSI Network Layer, Addressing the sub-netting	Introduction to Dynamic Routing, Distance Vector RIPv1
		Static Routing		<b>Hand-on practical</b>
06.12.19	VLANS create logically separate networks	DHCP Server setup	Identify the basic operation of NAT, IP Services Configure and verify NAT for given network requirement	Valediction and Feed Back
		<b>Hand-on practical</b>	<b>Hand-on practical</b>	

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## About CEG

Centre for Electronic Governance (CEG) is an Autonomous body of the Government of Rajasthan under the Department of Technical Education. The CEG has been established with a sole aim to provide a conducive environment for creating industry employable IT professionals by the way of arranging seminars/lecturers, vocational trainings and industry relevant software trainings as well as FDP. At the same time it provides a ready made platform for interaction between the industry and the trained workforce.

### The Objective of CEG

1. To promote interaction between the Government, Universities and Industries
2. To provide conducive environment of learning by doing and produce readily employable Engineering graduates/Diploma holders by imparting industry grade skill.
3. To promote the dissemination of knowledge by fostering the innovative thoughts of the students
4. To increase education in technical sphere, CEG has been making efforts to bridge the gap in between the urban-rural area.
5. To develop and deploy e-Governance applications in a cost-effective manner, and apply fruit full results for the benefit of public and thus upgrading the quality of life of the citizen.
6. To give necessary recommendation for university curriculums updates as per the need of Industries.
7. To organized Engineering seminars and lecturers of eminent engineers and scientist.
8. To invite various companies associated with the technical education sector for employing students in different areas.
9. To organize Faculty Development Training Programme (FDP) for teaching/non-teaching staff.
10. CEG aims to create a "Centre of Excellence" the where youth will receive technical training that will enable them to become expert in IT/Software technology.

### About Network cum Linux System Administration

The duties of a system administrator are wide-ranging, and vary widely from one organization to another. Sysadmins are usually charged with installing, supporting, and maintaining servers or other computer systems, and planning for and responding to service outages and other problems. Other responsibility may include scripting or light programming, project management for systems-related projects. In case of Network Administrator they organize, install, and support an organization's computer systems, including local area networks (LANs), wide area networks (WANs), network segments, intranets, and other data communication systems. Administrators manage an organization's servers and desktop and mobile equipment.

## Patron

**Smt. Shuchi Sharma IAS, Secretary**  
Deptt. of Higher & Technical Education,  
Govt. of Rajasthan, Jaipur

### Advisory Committee

1. **Sh. Anil Kumar Agarwal**, Joint Secretary,  
Deptt. of Technical Education, Govt. of Rajasthan, Jaipur.
2. **Prof. R. A. Gupta**, Vice Chancellor, RTU Kota.
3. **Prof. H.D. Charan**, Vice Chancellor, BTU Bikaner.
4. **Shri Purshottam Sankhla**, Director  
Deptt. of Technical Education, Govt. of Rajasthan, Jaipur.
5. **Dr. Manish Gupta**, Joint Secretary-II,  
Deptt. of Technical Education, Govt. of Rajasthan, Jaipur
6. **Prof. B.P.Suneja**, Dean, Engg. and Arch., RTU Kota
7. **Dr. Anil Mathur**, Dean F.A., RTU Kota
8. **Dr. S. K. Bansal**, Prinicpal, UCET, Bikaner
9. **Dr. R. K. Chaudhary**, Principal, MLVTEC, Bhilwara
10. **Dr. Kartar Singh**, Principal, GEC, Jhalawar
11. **Dr. U.S. Modani**, Principal, GEC, Ajmer
12. **Dr. J. P. Bhambhui**, Principal, ECB, Bikaner
13. **Dr. J. K. Deegwal**, Principal GWEC, Ajmer
14. **Dr. A. K. Sharma**, Dean, CTAE, Udaipur
15. **Dr. Ravi Gupta**, Principal, GEC, Bharatpur, Dholpur, Karauli.
16. **Dr. Shival**, Principal, GEC, Banswara.
17. **Dr. S. K. Bishnoi**, Principal, GEC, Barmer.

### Organizing Committee

1. Sh. B. S. Meena, Sr. Lecturer
2. Sh. Shallesh Joshi, Sr. Lecturer
3. Dr. Veer Pal Singh, Lecturer
4. Sh. Mukul Kulshrestha, Lecturer
5. Sh. Yogesh Sharma, Assistant Professor
6. Sh. Alok Mathur, Assistant Professor
7. Dr. V. S. Rathore, Assistant Professor
8. Sh. Rakesh Kumar Soni, CAD Instructor

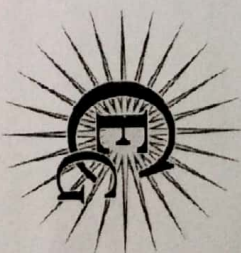
### Important Dates & Information

Course Duration: December 2-6, 2019

Timings: 10:00 AM to 5:00 PM

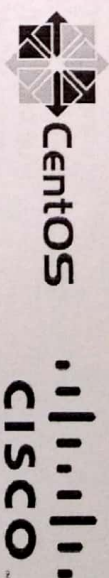
Last Date of Registration: November 30, 2019, 05:00 PM

To download brochure and application form visit  
URL: <http://www.ceg.rajasthan.gov.in>



STAFF DEVELOPMENT PROGRAMME ON  
"Network cum Linux System Administration"

December 02 - 06, 2019



### Organizing Chair

**Dr. Sundeeep Kumar**

Director, CEG Jaipur

### Programme Coordinators

**Er. Manish Gupta Dy. Director**

**Sh. Ravinder Swami**

**Sh. Maninder Singh Bhui**

### Centre for Electronic Governance

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Govt. R C Khaitan Polytechnic College Campus,  
Jhalana Doongari, Jaipur-302004.

Ph: 0141-2702344

Website: [www.ceg.rajasthan.gov.in](http://www.ceg.rajasthan.gov.in)

[www.ceg.rajasthan.org](http://www.ceg.rajasthan.org)



# STAFF DEVELOPMENT PROGRAMME

## ON "Network cum Linux System Administration"

December 02-06, 2019

Name: Dr./Mr./Mrs. ....

Academic Qualifications .....

Designation .....

Department .....

College / Institute .....

Years of Experience .....

Mobile No. ....

E-Mail ID .....

Address .....

.....

.....

TEQIP-III institution: Yes / No

Accommodation needed : Yes / No

DD No. .... Date: ..../..../.....

Bank Name: .....

Place: ..... Signature of Applicant

Signature of Principal / Director / Dean with seal.

### Preamble

Open source & Networking technologies are reshaping the 21st century technology landscape in countless ways from electronics and Internet, to government, entertainment. Networking securities are also redefining, it means to collaborate and innovate in our modern world. CentOS Linux is a full-featured, robust Linux operating system with a wealth of associated free software, capable of supporting high-performance network service.

### SDP Objectives & Outcomes

1. Describe the functions of each layer in OSI and TCP/IP model.
2. Explain the functions of Application layer and Presentation layer paradigms and Protocols.
3. Describe the Session layer design issues and Transport layer services.
4. Describe the functions of data link layer and explain the protocols.
5. Explain the types of transmission media with real time applications
6. Understand the process management policies and scheduling of processes by CPU
7. Evaluate the requirement for process synchronization and coordination handled by operating system
8. Describe and analyze the memory management and its allocation policies.
9. Identify the need to create the special purpose operating system.

### Accommodation

Lodging and boarding to limited number of participants from Govt./ Non Govt. Colleges / Institution will be provided at CEG Hostel on first come first serve basis. Registration fees covers courseware, lunch, Tea / Coffee and Certificate

### Course Contents

- \* Installation of CentOS Linux using pxe / dvd manually
- \* Hands-on practice with basic Linux command
- \* Basic & advance permissions in Linux File System
- \* Install/update/remove Software using rpm (red hat package management.)
- \* Network-setup in linux (Static IP and DHCP)
- \* SELinux in CentOS
- \* Yum Client & Server setup
- \* FTP Server setup
- \* LAMP (linux, apache, Mysq & php) setup
- \* Security in Linux: host based & network based.
- \* OSI Layers
- \* Static & dynamic routing
- \* VLAN and NAT
- \* DHCP setup

### Eligibility & Fee Structure

#### Staff members of Govt. Engineering Institutes.

Each participant will have to submit SDP fees through Demand Draft/ Cheque of Rs. 18500/- in favour of "Director CEG, Jaipur", payable at Jaipur and send it with application form to Centre for Electronic Governance, Govt. R C Khaitan Polytechnic College Campus, Jhalana Doongari, Jaipur-302004  
Both soft and hard copy of applications will be accepted.

E-mail : ddcegjpr@gmail.com  
Contact Numbers : 0141-2702344, 7073744081,  
9414582211, 9461673928

