SUPPORTING DOCUMENTS
AQAR: 2022-23

3.4.1	*Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year*
	Attachment: Supporting Documents

Event: Awareness Programme on "Scope of Innovation & Research in NEP-2020"

On May 18, 2023 an awareness program on the "Scope of Innovation & Research in NEP-2020" was organized on 18-05-2023 at Adhyatmik Nagar Inter College, Dasna, Ghaziabad, U.P. The event was organized by the IMS Engineering under the umbrella of Unnat Bharat Abhiyan program with the aim of Scope of Innovation & Research in NEP-2020. The program aimed to enlighten participants about the opportunities and benefits presented by the National Education Policy 2020 (NEP-2020) in fostering innovation and research in the education sector.

The primary objective of the awareness program was to provide participants with a comprehensive understanding of NEP-2020 and its potential to promote a research-oriented approach to education. It aimed to create awareness among educators, students, researchers, and policymakers regarding the scope and significance of innovation and research in the implementation of NEP-2020.

The awareness program on the "Scope of Innovation & Research in NEP-2020" successfully fulfilled its objective of creating awareness and understanding among participants. The sessions and discussions facilitated knowledge sharing, encouraged dialogue, and inspired participants to explore innovative strategies to implement NEP-2020's vision.

The program concluded with the assurance that such awareness programs would continue to be organized to support and promote the scope of innovation and research in the education sector.

We extend our gratitude to the keynote speaker, Principal, Teachers, participants, and organizing team members for their active involvement and contributions towards the success of the program.

2023/5/18 12:55

2023/5/18 12:34

2023/5/18 12:34

2023/5/18 12:33

Event Name: "Girls' Health, Hygiene, and Safety"

On May 01, 2023, a awareness program was held on **"Girls' Health, Hygiene, and Safety"** in the Sikroda Elementary School, Ghaziabad. The event was organized by the IMS Engineering with the aim of educating girls on issues related to their health, hygiene, and safety.

The workshop started at 11 am, and around 30 girls aged between 10 to 15 years old attended the event. The speaker was expert in their respective field, who shared their knowledge and experience on various topics related to girls' health, hygiene, and safety.

The speaker **Mrs. Bhumica Verma** is a professor in IMS Engineering College and also a member of women grievance cell, discussed the importance of menstrual hygiene and answered the girls' questions related to menstruation. The girls were also given a demonstration on how to use sanitary pads and how to dispose of them safely. She also talked about the importance of maintaining a healthy diet and a balanced lifestyle. After the presentations, the girls were divided into groups for interactive sessions where they could ask more questions and share their thoughts on the topics discussed.

The event concluded with a closing speech by the organizer, who emphasized the importance of taking care of oneself and others' safety. The girls were also encouraged to share their newly acquired knowledge with their friends and family.

Overall, the event was a great success, and the girls gained valuable knowledge and skills related to their health, hygiene, and safety. It was a significant step towards promoting girls' health and safety, and such events should be organized more frequently to empower young girls and build a healthier and safer community.

Event Photography

Dr. Nitin Sharma
Coordinator

To

The Director
IMS Engineering College,
Ghaziabad

Subject: - Approval for Tree Plantation Drive.

With due respect it is to bring into your kind notice that the NSS Committee of our College is going to hold a tree plantation programme on 26 January 2023 on the occasion of Republic Day under the aegis of "Azadi ka Amrit Mahotsav" in our campus. The purpose of this program is to spread greenery and save environment by planting trees. All the faculty members, staff members and Students will participate in this programme to make it success.

I request you Sir for your kind approval.

Thanks & Regards

23.01.2023

Dr. Manoj Kumar Singh
Programme Head
NSS Team

APPROVED

23.01.2023

Tree Plantation Drive

IMS Engineering College holds the legacy of "Green Plantation" on 26th January 2023

IMS Engineering College, Ghaziabad requires no introduction, being accepted as one of the pioneer academic institutions of Delhi NCR by the community at large. The institution imparts quality education at post graduate and under graduate levels. Since more than two decades, it is the prime sough after destination for B.Tech, MBA and MCA aspirants.

IMSEC-GZB is not only successful and instrumental in executing disruptive modifications in the field of education to excel others but also emerged as an epicentre for fostering "Green Revolution" by executing the plantation drive as a green initiative.

On 26th January 2023, the NSS committee of the institution scheduled a "tree plantation programme" on the occasion of Republic Day under the aegis of "Azadi ka Amrit Mahotsav" in the campus. The purpose of this program was to spread greenery and save environment by planting trees. All the faculty members, staff members and students were motivated by expediting an awareness camp to participate wholeheartedly in this campaign for making the same a grand success. The prime objective of this endeavour was to maintain the sanctity of the environment.

The Programme Head Dr. M.K. Singh has stated that it was not the first initiative that IMSEC has taken but many dedicated operations have been executed in recent past to sustain the spirit of determination towards green revolution implementations. He further asserted that few academic staff members have been assigned exclusively for this task to be done within stipulated time frame and it is the team dynamics that worked to bestow desired results to us.

Dr. Vikram Bali, Director of the renowned institution while briefing the importance of this activity, highlighted that the mission is to cultivate a thought process to contribute towards the prevention of the atmosphere and to secure the ecological balance. He added that IMSEC has been a pioneer institute contributing for the social cause whether offering its building to operate as Covid centre during pandemic situation or adopting a village for the development of the same or devoted to tree plantation. The list is endless.

Dr. Bali emphasised that it is the instinct of IMSains to fuel such kinds of lucrative projects that will trigger the thought process to save greenery for our future generations to breathe pure air and survive with a healthy body, mind and soul. He further remarked that we have to rekindle emotions in our current generations to propel our dreams, which can only be accomplished by having indomitable will and collaborative endeavours leading India shine in embracing Green Revolution.

28/01/2023

Dr. Manoj Kumar Singh
Programme Head
NSS Team

Jan 26, 2023 11:05:03
28°68'N 77°51'E
161.7m Altitude

Jan 26, 2023 11:06:00
28°68'N 77°51'E
161.8m Altitude

To

24.11.2022

The Director
IMS Engineering College,
Ghaziabad

Subject: - Approval for Cloth Donation Drive.

With due respect it is to bring into your kind notice that the NSS Committee of our College is going to hold a Clothes Donation drive on 28 November 2022. The purpose of thisprogram is services of humanity by distributing woollen clothes and other winter requirements to the needy people living in slum areas in Ghaziabad.

I request you Sir for your kind approval.

Thanks & Regards

24.11.2022

Dr. Manoj Kumar Singh
Programme Head
NSS Team

Approved
24.11.2022

Clothes Donation Drive

IMS Engineering College donated clothes for slum areas and underprivileged people

IMS Engineering College, Ghaziabad requires no introduction, being accepted as one of the pioneer academic institutions of Delhi NCR by the community at large. The Institution imparts quality education at post graduate and under graduate levels. Since more than two decades, it is the prime sough after destination for B.Tech, MBA and MCA aspirants.

IMSEC-GZB is not only successful and instrumental in executing disruptive modifications in the field of education to excel others but also emerged as an epicentre for fostering humanity and uplift mankind to spur empathy by contributing to the fullest to eradicate the languish and sufferings of the underprivileged cadre of the society.

On 28th November 2022, the NSS committee of the institution scheduled "Woollen Clothes Donation Drive" by reaching the different slum areas within the periphery of Ghaziabad. The prime objective of this endeavour was to serve poor people for elevating humanity by distributing woollen clothes and other winter requirements to the needy people living in slum areas.

The Programme Head Dr. M.K. Singh has stated that it was not the first initiative that IMSEC has taken but many dedicated operations have been executed in recent past to sustain the spirit of determination towards these people. He further asserted that few academic staff members have been assigned exclusively for this task to be done within stipulated time frame and it is the team dynamics that worked to bestow desired results to us.

Dr. Vikram Bali, Director of the renowned institution while briefing the importance of this activity, highlighted that the mission is to cultivate a thought process to embrace the poor and extend a helping hand to them. He added that IMSEC has been a pioneer institute contributing for the social cause whether offering its building to operate as Covid centre during pandemic situation or adopting a village for the development of the same. The list is endless.

Dr. Bali emphasised that it is the instinct of IMSains to fuel such kinds of lucrative projects that will bridge the gap among economic differentials by igniting the emotions to propel our dreams, which can only be accomplished by having indomitable will and collaborative endeavours leading India shine at the international arena.

30.11.2022

Dr. Manoj Kumar Singh
Programme Head
NSS Team

IMS ENGINEERING COLLEGE,
GHAZIABAD

NATIONAL SERVICE SCHEME
(NSS)

NOT YOU

IIC-IMSEC

"Our aim is to establish IMSEC, as an advanced developing innovation center to promote entrepreneurial ideas and products that contribute to societal change".

Prof. Dr. Vikram Bali
(Director IMSEC)

IMS ENGINEERING COLLEGE, GHAZIABAD
NAAC Accredited & NBA Accredited Programme
Approved by AICTE, New Delhi & Affiliated to AKTU, Lucknow
Under the aegis of IMS Society, Ghaziabad
Estd. 2002

Report Summary

Sponsored By	IIC-IMSEC
Department of	Department of Management
In Collaboration With	IIC
Academic Session/Semester	2022-2023
Objective	To create awareness about the significance of voluntary blood donation and encourage people to donate blood regularly.
Coordinator	Dr Meenu Baliyan
Speaker	------
Date	05-12-2022
Event Type	Camp
Title	Blood Donation Camp
Report Prepared By	Lalit Kumar Naveen

Table of Contents

S. No.	Content	Page no.
1.	Letter of approval / Notice of event	04
2.	Banner / Flyer of the Event	05
3.	Report(s)	06
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IMS ENGINEERING COLLEGE, GHAZIABAD
NAAC Accredited & NBA Accredited Programme
Approved by AICTE, New Delhi & Affiliated to AKTU, Lucknow
Estd. 2002   Under the aegis of IMS Society, Ghaziabad

(12369)

IMS ENGINEERING COLLEGE, GHAZIABAD
Department of MBA

From: HOD MBA	To: Director

Ref: 2022/MBA/Nov/30   Date: 30/11/2022

IMS Engineering College is organizing a blood donation camp on 5th December 2022. All healthy individuals above the age of 18 years are welcome to participate. Doctors and nurses will be available to assist donors with the blood donation process. Refreshments will be provided to all donors.

This is an excellent opportunity to do something good for the community and to help save lives. We urge you to participate in the camp and donate blood.

Therefore, seeking your kind approval for the same.

30 Nov/22

Dr. Meenu Baliyan

HOD(MBA)

Approved
30.11.2022

1

IMS ENGINEERING COLLEGE, GHAZIABAD

NAAC Accredited & NBA Accredited Programme
Approved by AICTE, New Delhi & Affiliated to AKTU, Lucknow
Under the aegis of IMS Society, Ghaziabad

Estd. 2002

IMS ENGINEERING COLLEGE

organizing

BLOOD
DONATION CAMP

5th Dec 2022

Time: 10:00 AM - 02:00 PM
Venue: Block-C

NH-09, Adhyatmik Nagar, Distt: Ghaziabad, Uttar Pradesh-201015
Admission Enquiry: +91-9821396581/82/83 | Landline Number: 0120-4940000 | Whatsapp Number: +91-9821396583
Toll Free: 1800-102-8393 | Email ID: enquiry@imsec.ac.in | www.imsec.ac.in

IMS ENGINEERING COLLEGE, GHAZIABAD
NAAC Accredited & NBA Accredited Programme
Approved by AICTE, New Delhi & Affiliated to AKTU, Lucknow
Under the aegis of IMS Society, Ghaziabad
Estd. 2002

Report of the Event

Objectives

To create awareness about the significance of voluntary blood donation and encourage people to donate blood regularly.

Description

IMS Engineering College, Ghaziabad in collaboration with the Rotary Club of Ghaziabad Sapphire organized a successful Blood Donation Camp on December 5th, 2022. The event witnessed enthusiastic participation from both students and faculty members, reflecting their commitment to the community's well-being. The presence of our distinguished Hon'able Treasurer, Shri. Sanjay Agarwal, and our esteemed Director, Prof. (Dr.) Vikram Bali, further underscored the importance of this noble cause. The collective effort of the IMS community in donating blood will undoubtedly make a lasting impact on lives in need.

Outcome

Conducting voluntary blood donation camp in regular basis will increase the stock of blood units in blood bank which is needed for optimum functioning of the health-care system. The organization of blood donation camp should be best and safe to the patient/recipients and to the blood donor also.

IMS ENGINEERING COLLEGE, GHAZIABAD

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Under the aegis of IMS Society, Ghaziabad

Estd. 2002

Photographs of the event

05-Dec-2022 10:56:35 am
28°68'N 77°51'E
162.0m Altitude

IMS ENGINEERING COLLEGE, GHAZIABAD

NAAC Accredited & NBA Accredited Programme
Approved by AICTE, New Delhi & Affiliated to AKTU, Lucknow
Under the aegis of IMS Society, Ghaziabad

Estd. 2002

05-Dec-2022 10:51:13 am
28°68'N 77°51'E
161.5m Altitude

![IMS Engineering College logo]

IMS Engineering College

NH-09, Adhyatmik Nagar, Near Dasna, Distt. Ghaziabad, U.P.

Tel: (0120) 4940000

Report on

Cloth donation and plastic waste collection drive

The cultural committee of IMS Engineering College organized "Cloth donation and plastic waste collection" drive collabration on 24.02.2023 at A- block, IMSEC, Ghaziabad. In this event students from the entire college enthusiastically participated. This event was coordinated by Dr Meenu Baliyan(Cultural Committee Head) Dr. Sachi Singh, and Dr. Soma Das Ms (Co-cordinators, Cultural committee).

F. No. 8-1/KARMA/**Model2**/Northern/1-4903321   Dated: **11-06-2022**

The principal

IMS ENGINEERING COLLEGE

NH-24, ADHYATMIK NAGAR, GHAZIABAD, UTTAR PRADESHPIN CODE 201009

GHAZIABAD , Uttar Pradesh

Subject : Approval for courses under **model2** of KARMA Scheme

Dear Sir/Madam,

In reference to your online application for running Job roles under KARMA scheme.

AICTE has approved the following courses to be conducted in your Institution.

Model : model2.

Sno	Sector/Course Basket	Job roll	Applied intake	Approved Intake	NSQF level	No. of Hours
1	Computer Science and Engineering	Programming with Python	350	350	Level 4	144
2	Computer Science and Engineering	Programming Basics with C and C++	350	350	Level 4	240
3	Electronics Engineering	Certificate course in VLSI Design	30	30	Level 5	80
4	Computer Science and Engineering	AutoCAD Designer	30	30	Level 4	120

Note :

01. Institute will utilize its existing infrastructure form running these course.

02. The College/Institute shall maintain complete attendance of students and trainers during classes and practical of each job role.

03. The College/Institute shall fully implement the official Language Policy of Union Govt. and comply with the official Language Act, 1963 and Official Languages (use for official purposes of the Union) Rules, 1976 etc.

04. The institute will ensure the eligibility criteria of the students as per the NSDC Norms.

05. The Institute shall run training for each job role as prescribed by respective sector skill council.

06. Institute may charge a reasonable fee for each course under Model 1 and 2 with intimation to AICTE, while course under Model 3 will be provided without

charging fee from students.

07 The institute found violating the above-described conditions, will be debarred for running the courses.

08. Project sanctioned by AICTE is assigned a specific Reference No. given on the pre-page. All correspondences related to the project must contain this number with year of sanction of the project failing which correspondence will not be entertained.

09. The Annual Progress Report in the prescribed format shall be submitted to AICTE not later than one month after completion.

10. Institute can charge fee from students to meet expenditure for running the courses under Model 1 and Model 2 and same may be communicated to AICTE. But for running the Model 3 Vidyanjali, Institute has meet out the funds from CSR funds, no fee can be charged from students.

11. Project Completion Report (PCR) in the prescribed format in the total duration of the project in the prescribed format, Utilization in the format shall be submitted to the Council.

12. This sanction issues to run the courses under KARMA scheme as per NSQF guidelines. AICTE will not be responsible for certification of students. Certificate/Assessment will be done by third party i.e. Sector Skill Councils or any agency approved by NSDC.

Undertaking :

We affirm that the eligibility of courses applied are as per the aligned qualification recommended for the job role by NSQF. The Institute/University will also follow the guidelines of NSQF framed by NCVET for admitting and assessment of the students/leaners. We also affirm that we have sufficient infrastructure for the courses applied under Karma Portal. We will also comply with the norms as specified in the scheme and decided by the Government from time to time for implementation of the scheme. We understand that AICTE will not be responsible for training/ certification/ assessment of the students and same will be done as per norms/guidelines of the KARMA. This is to certify that the information provided in this proposal and its enclosures is true and correct to the best of our knowledge and belief. We understand the consequences of any untrue or incorrect information provided in this proposal and its enclosures.

Yours faithfully,

(Dr Neetu Bhagat)

Dy Director,

Skill Development Cell (SDC)

Siddhi Nath Rajan <sn.rajan@imsec.ac.in>

it Sharma <sumit.sharma@imsec.ac.in>
iddhi Nath Rajan <sn.rajan@imsec.ac.in>, Dean Academics <deanacademic@imsec.ac.in>

Fri, Jun 10, 2022 at 12:33 PM

Course We Can Run Under AICTE- KARMA Scheme

Sr. No.	Courses Under AICTE-KARMA	NSQF LEVEL	Eligibility	Model	No of Intake	Host Department
	Programming With Python (144 Hours)	Level-4	Pursuing B.Tech	Model-2	350	CSE
	Programming Basics with C and C++ (240 Hours)	Level-4	Pursuing B.Tech	Model-2	350	CSE
	Certificate course in VLSI Design (80 Hours)	Level-5	Pursuing B.Tech	Model-2	30	ECE
	Additive Manufacturing /3D Printing (400 Hours)	Level-5	Diploma Holder/B.Sc	Model-3	30	ME
	Auto CAD Designer (120)	Level-4	Pursuing B.Tech	Model-2	30	ME
	Computer Hardware & Network Maintenance (2080 Hours)	Level-4	10th Passed with Science and Mathematics.	Model-1	50	CSE

ree

Discussed with Director Sir, we can apply for these courses as with the no of seats specified.

(S. N. Rajan)
10/6/2022

DATE: 02-09-2022

To,
The Director,
IMSEC

Subject: Inauguration of AICTE-KARMA program (Computer Hardware & Network Maintenance)

Sir,

We have total 17 registrations for the above mentioned program which we are starting in our institution. The list of the participants is attached herewith. The minimum qualification to participate in the program is 10th Standard.

The detail of the inauguration program is as follows:

Date   : 5th September 2022
Time   : 11 AM
Venue   : Academic Block-A, Room No: 209

We are also requesting you to inaugurate the program.

It is for your kind approval.

Manish Kumar Singh
(Asstt Professor, IT)
Program Coordinator
Computer H/W & Network
Maintenance

Sumit Sharma
(Asstt Professor, ME)
AICTE-KARMS Scheme Coordinator

OK

Director Sir
Forwarded for your kind approval.
02/09.2022
Dean (Academic)

IMS Engineering College, Ghaziabad

AICTE-KARMA Scheme

Computer Hardware & Network Maintenance-List of Registered Students

Sr. No	Name	DoB	Qualification	Address	Mobile No
1	Shreya Dixit	3/19/2005	12th	H.No-446, Gali No -1, Shivpuri Niwari Road Modinagar	9897489881
2	Uttam Singh	3/10/2000	10th	Ghaziabad-Up	8650031434
3	Rohit Kumar	1/15/1997	10th	Ghaziabad-Up	8882426256
4	Ankit	3/7/2001	10th	Ghaziabad-Up	9310514542
5	Arun Kumar	1/1/1998	10th	Ghaziabad-Up	9811482807
6	Gaurav Kumar	7/20/1997	10th	Ghaziabad-Up	9873505992
7	Atah Singh	8/16/1990	10th	Ghaziabad-Up	9899974835
8	Dilip Kumar	4/10/2004	10th	Ghaziabad-Up	9528823879
9	Anthony	5/8/2000	10th	Ghaziabad-Up	9560221399
10	Deepanshu	9/19/2005	10th	H. No-81, Sarai Nazar Ali-Ghaziabad	9540494306
11	Ajay S/o Jay Singh	10/7/2005	10th	218 Gali NO-3, Modinagar-GZB	9897702563
12	Abhishek S/o Rakam Singh	4/26/2001	10th	Balwant pura modinagar	7017303802
13	Sushant Jadeja	8/8/2022	10th	8/71, block b, khichripur-patpatganj-east delhi-110091	7428719543
14	Taniya Jadeja	9/5/2005	10th	8/71, block b, khichripur-patpatganj-east delhi-110091	7428719543
15	Naveen Naudiyal	9/7/2021	10th	Chipyana Buzurg, Gautam Buddha Nagar-UP	8800864854
16	KM. Shiksha	10/30/1999	10th	Chipyana Buzurg, Gautam Buddha Nagar-UP	8800864854
17	Rajeev Kumar	6/18/2000	10th	Karimnagar BanBoi Bulandshahr	9520613805

Amit
2/09/2022

7. LEARNING OUTCOME WITH ASSESSMENT CRITERIA

GENERIC LEARNING/ ASSESSABLE OUTCOME	
LEARNING/ ASSESSABLE OUTCOME	**ASSESSMENT CRITERIA**
1. Apply safe working practices.	1.1 Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements, and according to policy.
	1.2 Recognize and report all unsafe situations according to policy.
	1.3 Identify and take necessary precautions on fire and safety hazards and report according to work policy and procedures.
	1.4 Identify, handle and store/ dispose-off dangerous goods and substances according to policy and procedures following safety regulations and requirements.
	1.5 Identify and observe policies and procedures with regard to illness or accident.
	1.6 Identify safety alarms accurately.
	1.7 Report supervisor/ competent of authority in the event of accident or sickness of any staff and record accident details correctly according to accident/injury procedures.
	1.8 Identify and observe evacuation procedures according to site policy.
	1.9 Identify Personal Productive Equipment (PPE) and use the same as per related working environment.
	1.10 Identify basic first-aid and use them under different circumstances.
	1.11 Identify different fire extinguisher and use the same as per requirement.
2. Comply with environment regulation and housekeeping.	2.1 Identify environmental pollution & contribute to the avoidance of instances of environmental pollution.
	2.2 Deploy environmental protection legislation & regulations.
	2.3 Take opportunities to use energy and materials in an environmentally friendly manner.
	2.4 Avoid waste and dispose waste as per procedure.
3. Assist in exigencies and carry out elementary first-aid during emergencies.	3.1 Demonstrate elementary first-aids.
	3.2 Demonstrate safety practices to be observed in kitchen.
	3.3 Demonstrate use of personal protective dresses.
	3.4 Identify emergency exit route.

		3.5 Demonstrate fire fighting procedure using fire extinguishers.
4.	Work in a team, understand and practice soft skills, technical English to communicate with required clarity.	4.1 Obtain sources of information and recognize information.
		4.2 Use documents, regulations and occupationally related provisions.
		4.3 Conduct appropriate and target oriented discussions with higher authority and within the team.
		4.4 Present facts and circumstances, possible solutions & use English and French terminology.
		4.5 Resolve disputes within the team.
		4.6 Conduct written communication.
5.	Explain energy conservation, global warming, pollution, and contribute in day-to-day work by using available resources optimally.	5.1 Semester examination to test knowledge on energy conservation, global warming and pollution.
		5.2 Their applications will be assessed during execution of assessable outcome.
6.	Explain personnel finance, entrepreneurship and manage/organize related task in day-to-day work for personal & societal growth.	6.1 Semester examination to test knowledge on personnel finance, entrepreneurship.
		6.2 Their applications will be assessed during execution of assessable outcome.

SPECIFIC LEARNING/ ASSESSABLE OUTCOME

LEARNING / ASSESSABLE OUTCOME	ASSESSMENT CRITERIA
SEMESTER-I	
7. Perform all the functions with Electrical and Electronic Components related to Computer and Networking system.	7.1 Construct a simple circuit using AC/DC supply, lamp, fuse and switch.
	7.2 Measure circuit voltage and current using voltmeters and ammeters. Also check voltage between earth and neutral.
	7.3 Measure resistance using Multimeter.
	7.4 Practice of soldering and de soldering techniques, practice using hook-up wires. Soldering resistors on Tag board. Practice using surface mount board/ device.
	7.5 Measure inductance using LCR meter. Calculate Inductive reactance at different input signal frequencies.
	7.6 Rewind a transformer to given specification using winging machine.
	7.7 Test working condition of capacitor. Discharge first then test a charged capacitor. Measure capacitance using RLC meter.
	7.8 Construct and test a half wave and full wave diode rectifiers.
	7.9 Practice Quick test given transistors using Multimeter. Identify opens, shorted junctions.
	7.10 Assemble and test a fixed voltage regulator using 3pin IC.
	7.11 Assemble a simple inverter and converter for use with emergency lamp.
	7.12 Construct small circuit using digital electronic components.
8. Assembling and repairing of Desktop Computer with all its hardware components.	8.1 Open the cabinet and identify various motherboards components, connectors, slots, ports (USB, VGA, DVI, and HDMI), cables and Connectors.
	8.2 Identify Motherboard Components and connections. CPU (Processor) RAM (Memory) Hard Drive Connections Mechanical vs. Solid State Drives ROM Drives Graphic Cards, Sound Cards.
	8.3 Use Post Error Debug Card and understand error Code for fault troubleshooting.
	8.4 Verify components with the configuration of CMOS BIOS set up.
	8.5 Check DDR3 and DDR4 RAM's FSB. Insert it on memory slot. Test and understand various beep sounds in case of trouble.
	8.6 Removing the Processor, Installing the Processor. Understand and identify various different processor sockets.

9.	Installation of different Operating System and all other application software.	9.1	Boot the PC through a BOOTABLE DVD of OS. Partition the disk, Format the drive. Install Windows 7 and Windows 10 from DVD Disk.
		9.2	Make Win-7 AND Win-10 dual boot properly. Practice on recovery partition
		9.3	Install and boot Win-10 in UEFI mode.
		9.4	Collecting and installing specific/compatible Device driver from internet. Update the driver software from internet. Uninstall and Rollback the driver.
		9.5	Go to Windows Update in control panel. Check installed update. Change update Setting.
		9.6	Install any popular antivirus software. Online and offline updating of antivirus. View its various options. On and off Firewall option inside antivirus software.
		9.7	Install various application software programs in windows. Install Firefox and chrome browser.
		9.8	Install Linux (Ubuntu, Fedora, Debian, Red hat) OS from bootable usb drive and partition the hard disk manually. Use diskpart command.
		9.9	Practice important Linux commands.
10.	Customization of Operating System and maintenance of system application software.	10.1	Open Personalize Setting and find Desktop icon setting, Screen Resolution and various other setting.
		10.2	Open windows explorer and find different drives, files and folders, their size and other properties. Do it through command prompt also.
		10.3	Create and configure user accounts in Windows 7/8/10. Create Administrator and Limited user account.
		10.4	Make Changes to an Account. Reset Limited user account password through Administrative account.
		10.5	Use various free and paid Disk clean up utility to remove junk files from hard disk.
		10.6	Create automated backups to ensure you always have a recent backup.
		10.7	Configure outlook and connect with Gmail, use thunderbird IMAP/POP3 along with security features. Configuration of Browsers.
11.	Assembling, repairing of Laptop and its hardware components.	11.1	Assemble and disassembling a Laptop.
		11.2	Upgrade RAM, HDD and other parts.
		11.3	Test fault finding and troubleshooting techniques.
		11.4	Enabling support for SATA technology. Installation of OS using SATA technology drivers.

	11.5	Configuration of camera, mic, WLAN and Bluetooth, touchpad, finger print scanner.
12. Perform the operations of office package (word, excel, power point).	12.1	Format text and editing. Set up page and margins. Tabs and indents.
	12.2	Create Worksheets using Spreadsheet Software.
	12.3	Create Slide shows, insert picture, theme, format text, animation and object.

SEMESTER-II

13. Installation of Printer, Scanner and troubleshoot their faults.	13.1	Installing a printer and carrying self- test.
	13.2	Tracing the control board and identifying defective components. Servicing of control board.
	13.3	Replacement of toner cartridge of laser printers.
	13.4	Installing plotter and rectify its common faults.
	13.5	Install a Scanner , configure it and use Automatic Document Feeder(ADF), OCR.
	13.6	Find and locate various Scanner related problems and troubleshoot them.
	13.7	Install Barcode and configure it.
	13.8	Install Passbook Printer calibrate, configure.
14. Setting up and configuring Networking System using various network devices.	14.1	Identify various Network device like : (a) Switch (Normal and Managed), (b) Router(Normal and wireless), (c) Rack, Patch Panel, i/o box, (d) Access Point etc.
	14.2	Practice crimping with straight and cross CAT 6 cables.
	14.3	Punching practice in IO Box and patch panel.
	14.4	Create cabling using Fibre Optic cable and connectors.
	14.5	Install & Configure a Peer- to-Peer Network using Windows and Linux Software.
	14.6	Connect computers with Network with Drop cable and using Wi Fi configuration.
	14.7	Configure Layer 3 Switch. Verify IP Routing Process. Configure it from CLI in layer three switch.
	14.8	Create simple VLAN and understand the concepts.
	14.9	Practice IP Addressing technique (IPv4/IPv6) and Subnetting and Supernetting the network.
	14.10	Practice to set up and use SMTP, TELNET, FTP, HTTP, SNMP, LDAP, SSH, NTP, IPP, HTTPS etc.
15. Sharing and controlling resource and Internet connection through	15.1	Configure internet connection to the PC using wireless technology and troubleshoot various connection related problems.
	15.2	Share the internet connection (wire and wireless) in the local network and access it from other machine in LAN.

network.	15.3 Configure internet connection using L2 and L3 switch.
	15.4 Install Proxy Server and configure it.
	15.5 Setup of basic collaboration tool for activities like chat, application sharing, remote desktop access and control, VoIP.
16. Implement Network Security to protect from various attacks on networking.	16.1 Set up basic protection using public keys and MAC address filters.
	16.2 Troubleshoot wired and wireless network.
	16.3 Practice on firewall technologies to secure the network perimeter.
	16.4 Practice LAN security considerations and implement endpoint and Layer 2 security features.
17. Installation and configuration of Windows and Linux server.	17.1 Configure services like Active Directory, DNS and DHCP.
	17.2 Configure IIS Web server (latest version).
	17.3 Configure following on Linux Server: (a) /etc/hosts file, (b) DHCP, (c) DNS, (d) WEB SERVER, (e) NFS and SAMBA.
18. Browsing internet and able to communicate through email.	18.1 Practice web browsing using popular web browsing software, Configuring web browser.
	18.2 Use favourite folder for browsing quickly.
	18.3 Using e-mail: Opening and configuring email client, mailbox: inbox and outbox, Creating and sending e-mail, Replying to an e-mail message, Forwarding and e- mail message, Sorting and searching emails. Sending document/softcopy by email, activating spell checking, using address book, Handling SPAM, Removal of Cookies.

F.No..AICTE/SDC/Misc./2022-23   Dated:17/10/2022

To

All the Directors/Principals/Registrars of the
AICTE Approved Technical Institutes

Greetings from the AICTE!

Sub: Kaushal Augmentation & Restructuring Mission (KARMA) Scheme – Reg.

Sir/Madam,

As you know that Karma was launched on 15th December, 2021 with an objective to encourage the Institutions for making the best use of the available infrastructure of the higher education system during off hours for skill training by re-aligning the existing infrastructure for the skill courses specially, training AIDS, syllabus, model curriculum etc. as per NSQF aligned qualifications. In view of the various lacunae in implementation of the Scheme, some corrective measures are being made to streamline the procedure as below:

- The Training Programs are to be offered by the Institutions through their existing qualified faculty members in the respective domain at the Institute. However, due to non-availability of the qualified faculty and required infrastructure, institutes are also allowed to collaborate with other organizations for arranging trainers and infrastructure.

- It is observed that many of the Sector Skill Councils are not responding to the Institutions for the assessment. Some of the Sector Skill Councils are also demanding for signing of MoU with the Institution, accreditation of the trainers and the institutions with them which is not necessary for the qualified technical teachers and the infrastructure as has already been scrutinized by the AICTE. Hence, the Sector Skill Councils are being informed not to ask for such accreditation and respond positively in a time bound manner to the Institutions.

- AICTE may be reported in case of any difficulty/issue for effective implementation of the skilling initiatives of the AICTE.

Regards

(Prof. M. P. Poonia)
Vice Chairman
17|10|22