

# C.C.S. University, Meerut

**Meeting of Board of Studies of Geography dated : 14-09-2021**

**Subject : Minutes of the meeting of Board of Studies of Geography.**

An online meeting of the Board of Studies of Geography was held on 14<sup>th</sup> September 2021 at 4.00 p.m.

Following members were present in the meeting :

- Prof. N.C. Lohani, Dean, Faculty of Arts
- Dr. Anita Malik, Convener
- Prof. S.K. Bansal, External Subject Expert
- Dr. J.P. Sharma, External Subject Expert
- Prof. P.K. Garg, Director, Research Organization
- Dr. Deepshikha Sharma, Principal, Special Invitee
- Dr. Virendra Singh, Principal of the College
- Dr. Jyoti, Member

**Item No. 1 – Skill Development Course “Fundamentals of Computer and IT”** was discussed in the meeting and was approved unanimously.(Annexure 1)

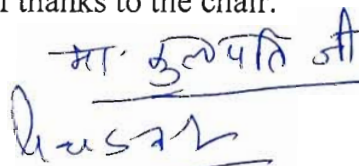
**Item No. 2 – Skill Development Course “Fundamentals of CAD/CAM”** was discussed in the meeting and was approved unanimously.(Annexure 2)


**Item No. 3 – Skill Development Course “Geographical Information System”** was discussed in the meeting and was approved unanimously.(Annexure 3)

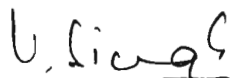
The meeting ended with a vote of thanks to the chair.

Best Regards

  
15-09-2021  
Dr. Anita Malik  
Convener

  
15/9/2021

  
(Dr. Deepshikha Sharma)  
Principal  
R.G.P.G. College, Meerut

  
15/9/21  
प्राचार्य  
दिगम्बर जैन कालिज  
बडौत (बागपत)

# CCS University, Meerut

**Subject: Skill Development Course for NEP-2021**


Annexure -I- Fundamental of Computer and IT

Annexure-II- Fundamental of CAD and CAM

Annexure-III- Fundamental of Geographical Information System

**Prepared by Board of Study in Geography**

G. Singh  
15/9/21  
15-09-2021

  
(Dr. Deepshikha Sharma)  
Principal  
B.G.P.S. College, Meerut

## Annexure- 1

<b>Fundamentals of Computer and IT</b>				
Unit 1	Fundamental of Computer		Theory Hrs.	Practical. Hrs.
		Introduction and objectives of Computer	5	10
		Development of Computer System		
		Types of Computers, characteristics and limitation		
		Generation of Computer		
		Types of PC's desktop. Laptop. Notebook. Workstation & their Characteristics.		
		Components of Computer System		
		Types of PC, Desktop, Laptop, Notebook		
Unit 2	Input & Output Device			
		Keyboard, Mouse, Trackball, Joystick, Digitizing tablet, Scanners, Camera	5	10
		Types of Monitor, video Standards, VGA, SVGA, Types of Screen		
		Printers and its types		
		Audio/video input output Display and Sound		
		Graphical Processing Unit (GPU) and Port		
		Hard Drive, Discs, cards		
		E-Accessible options		
Unit 3	Operating system			
		Application Software's		
		Basics of Networking	5	10
		Basics of MS Office		
		Word, Excel, power point, Animation and videos making		
		Virtual communication		
		Telecommuting (ICT)		
		Security and Safety of Computer, Laptop		

### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

Fee - 5000 INR      Installment options Available  
 Eligibility - Any Graduate, Graduation (pursuing), Postgraduate can apply.

*Sub* → 15-09-2021  
*U Singh*  
 15/9/21

*(Dr. Deepshikha Sharma)*  
 Principal  
 R.G.P. College Meerut

## Annexure-2

<b>Fundamentals of CAD/CAM</b>		Theory Hrs.	Practical. Hrs.
<b>Unit 1</b>	<b>Fundamental of AutoCAD</b>		
	Introduction and objectives of AutoCAD	5	10
	Fundamentals of CAD/CAM		
	AutoCAD Screen Layout		
	How to save and open and save cad files		
	Getting Started with AutoCAD		
	AutoCAD toolbars		
	Introduction and objectives of AutoCAD		
<b>Unit 2</b>	<b>Basic Drawing and Editing</b>		
	Drawing point, line, polygon, circle and rectangles	5	10
	Creating a Simple Drawing		
	Viewing Data in different angle		
	Getting Started with AutoCAD o Starting AutoCAD o AutoCAD's Screen Layout		
	Major commands in In Autocade		
	Working with Commands		
	Snapping and Gridding		
<b>Unit 3</b>	<b>Organizing Drawing</b>		
	Use of Function keys F1 to F12		
	Organizing Your Drawing with Layers	5	10
	Scaling and mirroring		
	Making drawing with templates		
	Measuring Objects		
	Editing and drawing of polyline, polygons, ellipse and circles		
	Annotation of Drawing		
Setting layout of Cad Drawing			
Printing of Drawing			

Fee – 5000 INR      Installment options Available  
 Eligibility – Any Graduate, Graduation (pursuing), Postgraduate can apply.

### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

*V. Sivaraj*  
25/9/21

*Dr. Sivaraj*  
15-09-2021

*[Signature]*  
Dr. Sivaraj, Professor  
Principal  
R.V. College, Mysore

### Annexure-3

<b>Geographical Information system</b>				
Unit 1	Fundamental of Geographical information system		Theory Hrs.	Practical Hrs.
		Introduction and objectives of GIS	5	10
		Basic concept of Spatial Information		
		Concept of GEO-Informatics		
		Historical development of GIS		
		Components of GIS		
		Software and hardware requirements for GIS		
		GIS data formats		
Unit 2	GIS Data Inputs			
		Satellite images, Aerial Photographs, Toposheets,	5	10
		GIS data types		
		GIS data model		
		Raster data model and types		
		Vector data models and types		
		GIS data and Sources		
		GIS elements (Point, Line, Polygon)		
		Making GIS layers in open Source		
		Software, GIS based data Collection Tools		
Unit 3	GIS data Processing And applications			
		Collecting Spatial data	5	10
		Geometrical Correction, Georeferencing		
		Datum, Projection and Coordinate system		
		Datum, UTM Selection for GIS work		
		Making maps, Thematic mapping,		
		Symbology of maps		
		Application of GIS		

#### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

Fee — 5000 INR      Installment options Available  
 Eligibility — Any Graduate, Graduation (pursuing), Postgraduate can apply.

*U. Singh*  
 15/9/21

*Dr. Deepshikha Sharmar*  
 15.09.2021

*Dr. Deepshikha Sharmar*  
 Principal  
 R.G.P.C. College Meerut

# C.C.S. University, Meerut

**Meeting of Board of Studies of Geography dated : 14-09-2021**

**Subject : Minutes of the meeting of Board of Studies of Geography.**

An online meeting of the Board of Studies of Geography was held on 14<sup>th</sup> September 2021 at 4.00 p.m.

Following members were present in the meeting :

- Prof. N.C. Lohani, Dean, Faculty of Arts
- Dr. Anita Malik, Convener
- Prof. S.K. Bansal, External Subject Expert
- Dr. J.P. Sharma, External Subject Expert
- Prof. P.K. Garg, Director, Research Organization
- Dr. Deepshikha Sharma, Principal, Special Invitee
- Dr. Virendra Singh, Principal of the College
- Dr. Jyoti, Member

**Item No. 1 – Skill Development Course “Fundamentals of Computer and IT”** was discussed in the meeting and was approved unanimously.(Annexure 1)

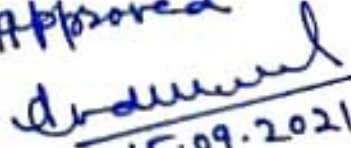
**Item No. 2 – Skill Development Course “Fundamentals of CAD/CAM”** was discussed in the meeting and was approved unanimously.(Annexure 2)

**Item No. 3 – Skill Development Course “Geographical Information System”** was discussed in the meeting and was approved unanimously.(Annexure 3)

The meeting ended with a vote of thanks to the chair.

Best Regards

  
15-09-2021  
Dr. Anita Malik  
Convener

Approved  
  
15-09-2021

# CCS University, Meerut

**Subject: Skill Development Course for NEP-2021**

Annexure -I- Fundamental of Computer and IT

Annexure-II- Fundamental of CAD and CAM

Annexure-III- Fundamental of Geographical Information System

**Prepared by Board of Study in Geography**

*Prepared*  
15.09.2021

Approved  
*Indu*  
15.09.2021

Fundamentals of Computer and IT		Theory Hrs.	Practical Hrs.
Unit 1	Fundamental of Computer	Introduction and objectives of Computer	5
		Development of Computer System	10
		Types of Computers, characteristics and limitation	
		Generation of Computer	
		Types of PC's desktop, Laptop, Notebook, Workstation & their Characteristics.	
		Components of Computer System	
		Types of PC, Desktop, Laptop, Notebook	
Unit 2	Input & Output Device	Keyboard, Mouse, Trackball, Joystick, Digitizing tablet, Scanners, Camera	5
		Types of Monitor, video Standards, VGA, SVGA, Types of Screen	10
		Printers and its types	
		Audio/video input output Display and Sound	
		Graphical Processing Unit (GPU) and Port	
		Hard Drive, Discs, cards	
		E-Accessible options	
Unit 3	Operating system	Application Software's	
		Basics of Networking	5
		Basics of MS Office	10
		Word, Excel, power point, Animation and videos making	
		Virtual communication	
		Telecommuting (ICT)	
		Security and Safety of Computer, Laptop	

**Unit wise Assessment**

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

Fee - 5000 INR      Installment options Available  
 Eligibility - Any Graduate, Graduation (pursuing), Postgraduate can apply.

*Qud* - 15.09.2021

Approved  
*[Signature]*  
 15.09.2021



## Annexure-2

Fundamentals of CAD/CAM				
Unit 1	Fundamental of AutoCAD		Theory Hrs.	Practical Hrs.
		Introduction and objectives of AutoCAD	5	10
		Fundamentals of CAD/CAM		
		AutoCAD Screen Layout		
		How to save and open and save cad files		
		Getting Started with AutoCAD		
		AutoCAD toolbars		
		Introduction and objectives of AutoCAD		
		Fundamentals of CAD/CAM		
<b>Unit 2</b>	<b>Basic Drawing and Editing</b>	Drawing point, line, polygon, circle and rectangles	5	10
		Creating a Simple Drawing		
		Viewing Data in different angle		
		Getting Started with AutoCAD o Starting AutoCAD o AutoCAD's Screen Layout		
		Major commands in In Autocade		
		Working with Commands		
		Snapping and Gridding		
		Polar Tracking		
<b>Unit 3</b>	<b>Organizing Drawing</b>	Use of Function keys F1 to F12		
		Organizing Your Drawing with Layers	5	10
		Scaling and mirroring		
		Making drawing with templates		
		Measuring Objects		
		Editing and drawing of polyline, polygons, ellipse and circles		
		Annotation of Drawing		
		Setting layout of Cad Drawing		
		Printing of Drawing		

Fee - 5000 INR      Installation options Available  
 Eligibility - Any Graduate, Graduation (pursuing), Postgraduate can apply.

### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

*Apud*  
15.09.2021

*Approved*  
*Adarsh*  
15.09.2021

### Annexure-3

<b>Geographical Information system</b>				
Unit 1	Fundamental of Geographical information system		Theory Hrs.	Practical Hrs.
		Introduction and objectives of GIS	5	10
		Basic concept of Spatial Information		
		Concept of GEO-Informatics		
		Historical development of GIS		
		Components of GIS		
		Software and hardware requirements for GIS		
		GIS data formats		
Unit 2	GIS Data Inputs			
		Satellite images, Aerial Photographs, Toposheets,	5	10
		GIS data types		
		GIS data model		
		Raster data model and types		
		Vector data models and types		
		GIS data and Sources		
		GIS elements (Point, Line, Polygon)		
		Making GIS layers in open Source		
		Software, GIS based data Collection Tools		
Unit 3	GIS data Processing And applications			
		Collecting Spatial data	5	10
		Geometrical Correction, Georeferencing		
		Datum, Projection and Coordinate system		
		Datum, UTM Selection for GIS work		
		Making maps, Thematic mapping,		
		Symbology of maps		
		Application of GIS		

#### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

Fee - 5000 INR      Installment options Available  
 Eligibility - Any Graduate, Graduation (pursuing), Postgraduate can apply.

*Apud* 15.09.2021

Approved  
*[Signature]*  
 15.09.2021

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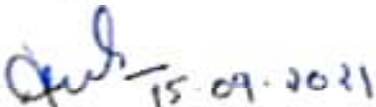
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**Item No. 3 – Skill Development Course “Geographical Information System”** was discussed in the meeting and was approved unanimously.(Annexure 3)

The meeting ended with a vote of thanks to the chair.

Best Regards

  
15-09-2021  
Dr. Anita Malik  
Convener



# **CCS University, Meerut**

**Subject: Skill Development Course for NEP-2021**

**Annexure -I- Fundamental of Computer and IT**

**Annexure-II- Fundamental of CAD and CAM**

**Annexure-III- Fundamental of Geographical Information System**

**Prepared by Board of Study in Geography**

*APD*  
15-09-2021

P. K. Singh

## Annexure- 1

<b>Fundamentals of Computer and IT</b>		Theory Hrs.	Practical Hrs.
<b>Unit 1</b>	<b>Fundamental of Computer</b>		
	Introduction and objectives of Computer	5	10
	Development of Computer System		
	Types of Computers, characteristics and limitation		
	Generation of Computer		
	Types of PC's desktop. Laptop. Notebook. Workstation & their Characteristics.		
	Components of Computer System		
	Types of PC, Desktop, Laptop, Notebook		
<b>Unit 2</b>	<b>Input &amp; Output Device</b>		
	Keyboard, Mouse, Trackball, Joystick, Digitizing tablet, Scanners, Camera	5	10
	Types of Monitor, video Standards, VGA, SVGA, Types of Screen		
	Printers and its types		
	Audio\video input output Display and Sound		
	Graphical Processing Unit (GPU) and Port		
	Hard Drive, Discs, cards		
	E-Accessible options		
<b>Unit 3</b>	<b>Operating system</b>		
	Application Software's		
	Basics of Networking	5	10
	Basics of MS Office		
	Word, Excel, power point, Animation and videos making		
	Virtual communication		
	Telecommuting (ICT)		
	Security and Safety of Computer, Laptop		

**Unit wise Assessment**

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

Fee - 5000 INR    Installment options Available  
 Eligibility - Any Graduate, Graduation (pursuing), Postgraduate can apply.

15-09-2021

P. K. Garg

## Annexure-2

<b>Fundamentals of CAD/CAM</b>			
<b>Unit 1</b>	<b>Fundamental of AutoCAD</b>		Theory Hrs.      Practical. Hrs.
	Introduction and objectives of AutoCAD	5	10
	Fundamentals of CAD/CAM		
	AutoCAD Screen Layout		
	How to save and open and save cad files		
	Getting Started with AutoCAD		
	AutoCAD toolbars		
	Introduction and objectives of AutoCAD		
	Fundamentals of CAD/CAM		
<b>Unit 2</b>	<b>Basic Drawing and Editing</b>	5	10
	Drawing point, line, polygon, circle and rectangles		
	Creating a Simple Drawing		
	Viewing Data in different angle		
	Getting Started with AutoCAD o Starting AutoCAD o AutoCAD's Screen Layout		
	Major commands in In Autocade		
	Working with Commands		
	Snapping and Gridding		
	Polar Tracking		
<b>Unit 3</b>	<b>Organizing Drawing</b>	5	10
	Use of Function keys F1 to F12		
	Organizing Your Drawing with Layers		
	Scaling and mirroring		
	Making drawing with templates		
	Measuring Objects		
	Editing and drawing of polyline, polygons, ellipse and circles		
	Annotation of Drawing		
	Setting layout of Cad Drawing		
	Printing of Drawing		

Fee            -        5000 INR      Installment options Available  
 Eligibility -        Any Graduate, Graduation (pursuing), Postgraduate can apply.

### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

*Ans*  
 15.09.2021 P. K. Singh

## Annexure-3

Geographical Information system		Theory Hrs.	Practical Hrs.	
Unit 1	Fundamental of Geographical information system	Introduction and objectives of GIS	5	10
		Basic concept of Spatial Information		
		Concept of GEO-Informatics		
		Historical development of GIS		
		Components of GIS		
		Software and hardware requirements for GIS		
		GIS data formats		
Unit 2	GIS Data Inputs	Satellite images, Aerial Photographs, Toposheets,	5	10
		GIS data types		
		GIS data model		
		Raster data model and types		
		Vector data models and types		
		GIS data and Sources		
		GIS elements (Point, Line, Polygon)		
		Making GIS layers in open Source		
		Software, GIS based data Collection Tools		
Unit 3	GIS data Processing And applications	Collecting Spatial data	5	10
		Geometrical Correction, Georeferencing		
		Datum, Projection and Coordinate system		
		Datum, UTM Selection for GIS work		
		Making maps, Thematic mapping,		
		Symbology of maps		
		Application of GIS		

Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

Fee - 5000 INR      Installment options Available  
 Eligibility - Any Graduate, Graduation (pursuing), Postgraduate can apply.

Ans - 15-09-2021 P. K. Garg

# C.C.S. University, Meerut

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- Prof. P.K. Garg, Director, Research Organization
- Dr. Deepshikha Sharma, Principal, Special Invitee
- Dr. Virendra Singh, Principal of the College
- Dr. Jyoti, Member


**Item No. 1 – Skill Development Course “Fundamentals of Computer and IT” was discussed in the meeting and was approved unanimously.(Annexure 1)**


**Item No. 2 – Skill Development Course “Fundamentals of CAD/CAM” was discussed in the meeting and was approved unanimously.(Annexure 2)**

**Item No. 3 – Skill Development Course “Geographical Information System” was discussed in the meeting and was approved unanimously.(Annexure 3)**

The meeting ended with a vote of thanks to the chair.

Best Regards

  
15-09-2021  
Dr. Anita Malik  
Convener

  
(Dr J.P. Sharma)09/2021  
Associate Professor Of Geography,  
University Of Kota, Kota, Rajasthan



# **CCS University, Meerut**

**Subject: Skill Development Course for NEP-2021**

**Annexure -I- Fundamental of Computer and IT**

**Annexure-II- Fundamental of CAD and CAM**

**Annexure-III- Fundamental of Geographical Information System**

**Prepared by Board of Study in Geography**

*APD*  
15.07.2021



(Dr. J.P. Sharma) 09/2021  
Associate Professor Of Geography,  
University Of Kota, Kota, Rajasthan

## Fundamentals of Computer and IT

		Theory Hrs.	Practical Hrs.
<b>Unit 1</b>	<b>Fundamental of Computer</b>	Introduction and objectives of Computer	5
		Development of Computer System	
		Types of Computers, characteristics and limitation	
		Generation of Computer	
		Types of PC's desktop. Laptop. Notebook. Workstation & their Characteristics.	
		Components of Computer System	
		Types of PC, Desktop, Laptop, Notebook	
<b>Unit 2</b>	<b>Input &amp; Output Device</b>	Keyboard, Mouse, Trackball, Joystick, Digitizing tablet, Scanners, Camera	5
		Types of Monitor, video Standards, VGA, SVGA, Types of Screen	
		Printers and its types	
		Audiolvideo input output Display and Sound	
		Graphical Processing Unit (GPU) and Port	
		Hard Drive, Discs, cards	
		E-Accessible options	
<b>Unit 3</b>	<b>Operating system</b>	Application Software's	
		Basics of Networking	5
		Basics of MS Office	
		Word, Excel, power point, Animation and videos making	
		Virtual communication	
		Telecommuting (ICT)	
		Security and Safety of Computer, Laptop	

### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

Fee - 3000 INR    Installment options Available  
 Eligibility - Any Graduate, Graduation (pursuing), Postgraduate can apply.

*Ans - 15-09-2021*

(Dr J.P. Sharma) 09/2021  
 Associate Professor of Geography,

## Annexure-2

<b>Fundamentals of CAD/CAM</b>		Theory Hrs.	Practical Hrs.
<b>Unit 1</b>	<b>Fundamental of AutoCAD</b>		
	Introduction and objectives of AutoCAD	5	10
	Fundamentals of CAD/CAM		
	AutoCAD Screen Layout		
	How to save and open and save cad files		
	Getting Started with AutoCAD		
	AutoCAD toolbars		
	Introduction and objectives of AutoCAD		
<b>Unit 2</b>	<b>Basic Drawing and Editing</b>		
	Drawing point, line, polygon, circle and rectangles	5	10
	Creating a Simple Drawing		
	Viewing Data in different angle		
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	Major commands in In Autocade		
	Working with Commands		
	Snapping and Gridding		
<b>Unit 3</b>	<b>Organizing Drawing</b>		
	Use of Function keys F1 to F12		
	Organizing Your Drawing with Layers	5	10
	Scaling and mirroring		
	Making drawing with templates		
	Measuring Objects		
	Editing and drawing of polyline, polygons, ellipse and circles		
	Annotation of Drawing		
Setting layout of Cad Drawing			
Printing of Drawing			

**Fee** - 5000 INR      Installation options Available  
**Eligibility** - Any Graduate, Graduation (pursuing), Postgraduate can apply.

### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	30 marks	50	90

Date - 15.09.2021

(Dr. L.P. Sharma) 09/2021  
 Associate Professor Of Geography,  
 University Of Kota, Kota, Rajasthan

### Annexure-3

<b>Geographical Information system</b>		Theory Hrs.	Practical Hrs.
<b>Unit 1</b>	<b>Fundamental of Geographical information system</b>		
	Introduction and objectives of GIS	5	10
	Basic concept of Spatial Information		
	Concept of GEO-Informatics		
	Historical development of GIS		
	Components of GIS		
	Software and hardware requirements for GIS		
	GIS data formats		
<b>Unit 2</b>	<b>GIS Data Inputs</b>		
	Satellite images, Aerial Photographs, Toposheets,	5	10
	GIS data types		
	GIS data model		
	Raster data model and types		
	Vector data models and types		
	GIS data and Sources		
	GIS elements (Point, Line, Polygon)		
	Making GIS layers in open Source		
	Software, GIS based data Collection Tools		
<b>Unit 3</b>	<b>GIS data Processing And applications</b>		
	Collecting Spatial data	5	10
	Geometrical Correction, Georeferencing		
	Datum, Projection and Coordinate system		
	Datum, UTM Selection for GIS work		
	Making maps, Thematic mapping,		
	Symbology of maps		
Application of GIS			

#### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
20 marks	20 marks	10	100

Fee - 5000 INR      Installment options Available  
 Eligibility - Any Graduate, Graduation (pursuing), Postgraduate can apply.

*Dr. J.P. Sharma*  
15-07-2021

*Dr. J.P. Sharma*  
 (Dr. J.P. Sharma) 09/2021  
 Associate Professor Of Geography,  
 University Of Kota, Kota, Rajasthan

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- Prof. N.C. Lohani, Dean, Faculty of Arts
- Dr. Anita Malik, Convener
- Prof. S.K. Bansal, External Subject Expert
- Dr. J.P. Sharma, External Subject Expert
- Prof. P.K. Garg, Director, Research Organization
- Dr. Deepshikha Sharma, Principal, Special Invitee
- Dr. Virendra Singh, Principal of the College
- Dr. Jyoti, Member

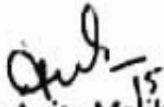
**Item No. 1 – Skill Development Course “Fundamentals of Computer and IT” was discussed in the meeting and was approved unanimously.(Annexure 1)**

**Item No. 2 – Skill Development Course “Fundamentals of CAD/CAM” was discussed in the meeting and was approved unanimously.(Annexure 2)**

**Item No. 3 – Skill Development Course “Geographical Information System” was discussed in the meeting and was approved unanimously.(Annexure 3)**

The meeting ended with a vote of thanks to the chair.

Best Regards

  
15.09.2021  
Dr. Anita Malik  
Convener

  
16.09.21

# **CCS University, Meerut**

**Subject: Skill Development Course for NEP-2021**

**Annexure -I- Fundamental of Computer and IT**

**Annexure-II- Fundamental of CAD and CAM**

**Annexure-III- Fundamental of Geographical Information System**

**Prepared by Board of Study in Geography**

*AK*  
15.09.2021

*AK*  
16.09.21

## Annexure- I

<b>Fundamentals of Computer and IT</b>				
		Theory Hrs.	Practical Hrs.	
<b>Unit 1</b>	<b>Fundamental of Computer</b>	Introduction and objectives of Computer	5	10
		Development of Computer System		
		Types of Computers, characteristics and limitation		
		Generation of Computer		
		Types of PC's desktop, Laptop, Notebook, Workstation & their Characteristics.		
		Components of Computer System		
		Types of PC, Desktop, Laptop, Notebook		
<b>Unit 2</b>	<b>Input &amp; Output Device</b>	Keyboard, Mouse, Trackball, Joystick, Digitizing tablet, Scanners, Camera	5	10
		Types of Monitor, video Standards, VGA, SVGA, Types of Screen		
		Printers and its types		
		Audio/video input output Display and Sound		
		Graphical Processing Unit (GPU) and Port		
		Hard Drive, Discs, cards		
		E-Accessible options		
<b>Unit 3</b>	<b>Operating system</b>	Application Software's		
		Basics of Networking	5	10
		Basics of MS Office		
		Word, Excel, power point, Animation and videos making		
		Virtual communication		
		Telecommuting (ICT)		
		Security and Safety of Computer, Laptop		

### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

Fee - 5000 INR    Installment options Available  
 Eligibility - Any Graduate, Graduation (pursuing), Postgraduate can apply.

*Jul - 15-09-2021*

*16-09-21*

## Annexure-2

Fundamentals of CAD/CAM				
Unit 1	Fundamental of AutoCAD		Theory Hrs.	Practical Hrs.
		Introduction and objectives of AutoCAD	5	10
		Fundamentals of CAD/CAM		
		AutoCAD Screen Layout		
		How to save and open and save cad files		
		Getting Started with AutoCAD		
		AutoCAD toolbars		
		Introduction and objectives of AutoCAD		
		Fundamentals of CAD/CAM		
Unit 2	Basic Drawing and Editing	Drawing point, line, polygon, circle and rectangles	5	10
		Creating a Simple Drawing		
		Viewing Data in different angle		
		Getting Started with AutoCAD o Starting AutoCAD o AutoCAD's Screen Layout		
		Major commands in In Autocade		
		Working with Commands		
		Snapping and Gridding		
		Polar Tracking		
Unit 3	Organizing Drawing	Use of Function keys F1 to F12		
		Organizing Your Drawing with Layers	5	10
		Scaling and mirroring		
		Making drawing with templates		
		Measuring Objects		
		Editing and drawing of polyline, polygons, ellipse and circles		
		Annotation of Drawing		
		Setting layout of Cad Drawing		
		Printing of Drawing		

Fee - 5000 INR      **Installment options Available**  
 Eligibility - Any Graduate, Graduation (pursuing), Postgraduate can apply.

### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

Date - 15.09.2021

  
 16.09.21



### Annexure-3

<b>Geographical Information system</b>				
<b>Unit 1</b>	<b>Fundamental of Geographical information system</b>		<b>Theory Hrs.</b>	<b>Practical Hrs.</b>
		Introduction and objectives of GIS	5	10
		Basic concept of Spatial Information		
		Concept of GEO-Informatics		
		Historical development of GIS		
		Components of GIS		
		Software and hardware requirements for GIS		
<b>Unit 2</b>	<b>GIS Data Inputs</b>	GIS data formats		
		Satellite images, Aerial Photographs, Toposheets,	5	10
		GIS data types		
		GIS data model		
		Raster data model and types		
		Vector data models and types		
		GIS data and Sources		
		GIS elements (Point, Line, Polygon)		
		Making GIS layers in open Source		
		Software, GIS based data Collection Tools		
<b>Unit 3</b>	<b>GIS data Processing And applications</b>	Collecting Spatial data	5	10
		Geometrical Correction, Georeferencing		
		Datum, Projection and Coordinate system		
		Datum, UTM Selection for GIS work		
		Making maps, Thematic mapping,		
		Symbology of maps		
		Application of GIS		

#### Unit wise Assessment

Assignments	Practical Exams	Project work	Total marks
10 marks	20 marks	10	100

**Fee** - 5000 INR    **Installment options Available**  
**Eligibility** - Any Graduate, Graduation (pursuing), Postgraduate can apply.

Date 15.09.2021

  
 16.09.21