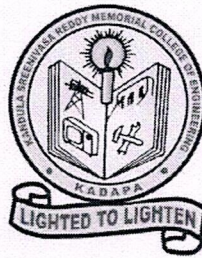# KANDULA SRINIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING (AUTONOMOUS)

KADAPA-516003. AP

(Approved by AICTE, Affiliated to JNTUA, Ananthapuramu, Accredited by NAAC)

(An ISO 9001-2008 Certified Institution)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATION COURSE
ON
".NET TECHNOLOGY"

Resource Person : 1. Mrs. V. Sudha, Assistant Professor, Dept. of CSE, KSRMCE

2. Mrs. B. Swetha, Assistant Professor, Dept. of CSE, KSRMCE

Course Coordinator: Mr. S. Khaja Khizar, Assistant Professor, Dept. of CSE, KSRMCE

Duration: 04/03/2019 to 23/03/2019

Lr./KSRMCE/ (Department of CSE)/2018-19

Date: 01/03/2019

To
The Principal
KSRM College of Engineering
Kadapa, AP.

Sub: KSRMCE - (Department of CSE) – Permission to conduct certification course on .Net Technology - Requested – reg.

---***---

Respected Sir,

    With reference to the cited, the Department of CSE is planning to conduct certificate course on **".Net Technology"** for B.Tech students from 04/03/2019 to 23/03/2019. So I request you to grant permission to conduct the certificate course. This is submitted for your kind perusal.

Thanking you sir,

Forwarded to the
Principal sir,

Yours Faithfully,

Coordinator,
S. Khaja Khizar
Assistant Professor,
CSE Dept.,

Cc:

To The Director for Information

Permitted
V. S. S. Mully

To All Deans/HODs

Dated: 02/03/2019

Circular

All the B.Tec students are here by informed that department of Computer Science & Engineering is going to organize certification course on **".Net Technology"** from 04/03/2019 to 23/03/2019. Interested students do register their names with the below mentioned coordinator on or before 03/03/2019, 5 PM.

For any queries contact,

Coordinator
Sri. S. Khaja Khizar ,
Assistant Professor,
CSE Dept.,

HoD

Dr. M. Sreenivasulu,
M. E., Ph. D,
Professor & HOD CSE
K..S.R.M. College of Engineering
K A D A P A - 516 003

Cc to:

The Management /Director / All Deans / All HODS/Staff / Students for information

The IQAC Cell for Documentation

K.S.R.M. COLLEGE OF ENGINEERING
(UGC - AUTONOMOUS)
Kadapa, Andhra Pradesh, India - 516003
Approved by AICTE, New Delhi & Affiliated to JNTUA,
Ananthapuramu.
An ISO 14001:2004 & 9001: 2015 Certified Institution

Date: 02/03/2019

Department of Computer Science & Engineering
Certificate Course on .Net Technology (04/03/2019 to 23/03/2019)
Registered Student List

S.No.	Roll Number	Name Of The Student	Year & Branch	Signature

Coordinator   HoD

K.S.R.M. COLLEGE OF ENGINEERING

(UGC - AUTONOMOUS)
Kadapa, Andhra Pradesh, India - 516003
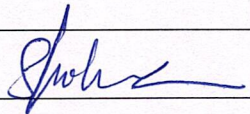### Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.
An ISO 14001:2004 & 9001: 2015 Certified Institution

Date: 02/03/2019

Department of Computer Science & Engineering
Certificate Course on .Net Technology (04/03/2019 to 23/03/2019)
Registered Student List

S.No.	Roll Number	Name Of The Student	Year & Branch	Signature
1	159Y1A0502	A. V. Rohitha Reddy	B-Tech VIII sem	A.V.R
2	159Y1A0531	B. Venkata Rajasree	8th sem	V. Rajasru.
3	159Y1A0523	C. Manjusha	8th sem	C. Manju
4	159Y1A0540	E. Guru Prakash Gowd	8th sem	E. Guruprada Sree.
5	159Y1A0501	A-Sreekanth	VIII Sem	Sree.
6	169Y1A0501	A. Sreekanth	6th sem	A. Sreekanth
7	159Y1A0526	C. Lakshmi Priya	8th sem	C. Lakshmi priya
8	159Y1A0524	C. Archana	8th sem	C. Archana.
9	159Y1A0503	A. Lavanya.	VIII sem	A. Lanya
10	169Y1A0546	K. Narasimha reddy	6th sem	K. Narasimhareddy
11	159Y1A0527	C. Maduri	8th sem	C. Maduri
12	159Y1A0504	Anki Reddy Venkata Bhavani	8th sem	V. Bhuni
13	159Y1A0525	C. pawan Kumar reddy	8th sem	C. Pawankumar Reddy
14	159Y1A0522	C. Harikrishna	8th sem	Harikrishna.
15	169Y1A0547	K. laxmi Eshwaramma	6th sem	K. laxmi

16	1594AD505	A. Shobhasankareddy	Btech VIIIsem	
17	159YIA0533	D. Rajesh	8th sem	D. Rajesh
18	169YA0548	K. Ravikumar	6th sem	K. Ravi
19	159YIA0507	B. Vijaya Kumar Reddy	VIII sem	B. Vijaya k.
20	159YIA0519	B. Chennapa kushalvaardi	8th Sem	Chennaj rud l
21	169YA0551	K. Babitha	6th sem	K. Babitha
22	159YIA0536	E. Sai hanuman	8th sem	E. Sai
23	159YIA0508	B. NarashimaReddy	VIII Sem	Narashu
24	169YIA0553	K. Suman Kumar reddy	6th sem	K. Suman kum reddy
25	159YIA0509	B. KRISHNA KISHORE	VIII SEM	Krish
26	169YA0549	K. Varalaksmi	6th sem	K. laksmi
27	159YIA0532	D. Sabareesh	8th sem	D. Sabar
28	159YIA0534	D. Rojasani	8th sem	D. Rojaran.
29	169YIA0552	K. Sai -Adhithya	6th sem	K. Adhithya
30	159YIA0510	B. Sravani	VIII sem	Srav
31	159YIA0511	B. Geethanjali	VIIIsem	Geethrj
32	159YIA0518	B. Madhava Reddy	VIII-Sem	Madhav rud
33	169YIA0545	K. Mounika reddy	6th Sem	K. Mounik
34	159YIA0531	D. Anil Kumar yadav	8th sem	D. Anil
35	159YIA0535	D. Yasaswani	8th sem	D. Yasaswani
36	169YIA0550	K. Maheshwar reddy	6th sem	K. Mahesh
37	159YIA0512	B. Ashok Vinay Kumar	8th sem	Ashok
38	169YIA0554	K. Rajeshwar reddy	6th sem	K. Rajesh
39	159YIA0520	B. Kavitha	VIII-Sem	Kavith

40	1594HA0513	B. Bharath kumar Reddy	8th sem	Bharch
41	1594IA0538	E. Ramadevi	8th sem	ERamadevi
42	1594IA0529	C. Nikhitha	8th sem	C. Nikhitha
43	1694IA0557	K. Sai Kusuma	6th sem	K. Kusuma
44	1594IA0515	B. Nagendra Bhavani	VIII-sem	Nanby
45	1694IA0556	K. Supraja	6th sem	K. Supraja
46	1594IA0530	C. Harshavardhamreddy	8th sem	C. Harsha
47	1594IA0516	B. Umadevi	8th sem	Umah
48	1594IA0537	E. Sai mounika	8th sem	E Sai
49	1694IA0555	K. Anil Kumar reddy	6th sem	K. Anilkumarreddy
50	1594IA0528	C. Nagamani	8th sem	C. Nagamani
51	1594IA0539	E. Sai prashanth	8th sem	E Saiprashanth
52	1594IA0517	B. Sravani	VIII-sem	Sravani
53	1594IA0514	B. Sireesha	VIII sem	Sire

J. Khil
Coordinator

HoD
Dr. M. Sreenivasulu,
M. E, Ph. D.
Professor & HOD CSE
K.S.R.M. College of Engineering
K A D A P A - 516 003

K.S.R.M. College of Engineering (Autonomous), Kadapa.
Department of CSE
Certificate Course on
.Net Technology
Syllabus

Overview: The course is designed to provide complete knowledge on .net technology and to enhance the programming skills of the students by giving practical assignments to be done in labs.

Course Objectives: .Net is a framework that provides programming guidelines that can be used to develop a wide range of applications from web to mobile to windows-based application.

Course Outcomes: At the end of the course participants will be able to
1. Understand the basics of VB.NET&ASP.NET
2. Understand the concept of error and exception handling.
3. Understand the OOPS Concepts.

Module 1: Introduction to the .NET initiative and the .NET platform

Module 2: Code Management

Module 3: Object oriented programming concepts and Error and Exception handling

Module 4: Using controls and components for designing application.

Module 5: Design web application using ASP.net

Textbook:
- C# 6.0 and the .NET 4.6 Framework by Andrew Troelsen and Philip Japikse.
- Programming Entity Framework by Julia Lerman.
- Pro ASP.Net MVC 5 (Expert's Voice in ASP.Net) by Adam Freeman.
- Dependency Injection in .NET by Mark Seemann.
- C# in Depth by Jon Skeet.

Department of Computer Science & Engineering
Certificate Course on .Net Technology (04/03/2019 to 23/03/2019)
Schedule

S.No	Date	Time	Faculty	Topic
1	04/03/2019	4PM to 5PM	Sri. S. Khaja Khizar Mrs. V. Sudha Mrs. B. Swetha	Introduction about certification course
		5PM to 6PM	Mrs. B. Swetha	Module I: Introduction to the .net initiative and the .net platform: • Detailed .NET Framework architecture, Name spaces
2	05/03/2019	4PM to 5PM	Mrs. B. Swetha	• Assemblies, Exploring Assemblies and Namespaces • Common Language Implementation , Metadata and Intermediate Language
		5PM to 6PM	Mrs. B. Swetha	• Garbage Collection, Versioning and Side-by-Side Execution, The End to DLL Hell, Managed Execution, COM Inter Op.
3	06/03/2019	4PM to 5PM	Mrs. B. Swetha	Installation procedure for .net technology.
		5PM to 6PM	Mrs. B. Swetha	Module II: Code Management Data Types and Base Class Libraries - Understanding .NET Data Types - Stream and String Manipulation,
4	07/03/2019	4PM to 5PM	Mrs. B. Swetha	Files and I/O, Collections - The Microsoft. Visual Basic Namespace
		5PM to 6PM	Mrs. B. Swetha	Module III: Object Oriented Programming Concepts: Introduction to VB.NET and C#, Namespaces
5	08/03/2019	4PM to 5PM	Mrs. V. Sudha	Creating Classes, Classes and Inheritance
		5PM to 6PM	Mrs. V. Sudha	Overloading

6	09/03/2019	4PM to 5PM	Mrs. V. Sudha	Constructors and Destructors
		5PM to 6PM	Mrs. V. Sudha	Inheritance
7	11/03/2019	4PM to 5PM	Mrs. V. Sudha	Controlling scope and visibility, Dispose and Finalization, Modifiers, Properties and Indexers
		5PM to 6PM	Mrs. V. Sudha	Attributes, Reflection API
8	12/03/2019	4PM to 5PM	Mrs. V. Sudha	Module IV: Language Features Creating .NET Projects, Namespaces,
		5PM to 6PM	Mrs. V. Sudha	Threads
9	13/03/2019	4PM to 5PM	Mrs. V. Sudha	Debugging and Error Handling,
		5PM to 6PM	Mrs. V. Sudha	Structured Error Handling
10	14/03/2019	4PM to 5PM	Mrs. V. Sudha	Module V: User control: Creation of user control
		5PM to 6PM	Mrs. V. Sudha	Usage of user control
11	15/03/2019	4PM to 5PM	Mrs. B. Swetha	Customer Control: Creation of customer control
		5PM to 6PM	Mrs. B. Swetha	Usage of customer control
12	16/03/2019	4PM to 5PM	Mrs. B. Swetha	Gridview
		5PM to 6PM	Mrs. B. Swetha	Asp.net repeater control
13	18/03/2019	4PM to 5PM	Mrs. B. Swetha	File upload in asp.net
		5PM to 6PM	Mrs. B. Swetha	Asp.net security
14	19/03/2019	4PM to 5PM	Mrs. B. Swetha	Themes and master pages
		5PM to 6PM	Mrs. B. Swetha	App.config
15	20/03/2019	4PM to 5PM	Mrs. B. Swetha	Global.asax
		5PM to 6PM	Mrs. B. Swetha	Module VI: web application using asp.net
16	21/03/2019	4PM to 6PM	Mrs. B. Swetha	web application using asp.net
17	22/03/2019	4PM to 5PM	Mrs. B. Swetha	Practical's
		5PM to 6PM	Mrs. B. Swetha	Practical's
18	23/03/2019	4PM to 6PM	Sri. S. Khaja Khizar Mrs. V. Sudha Mrs. B. Swetha	Exam, Certificate Distribution and Vote of Thanks

Coordinator

HoD

Dr. M. Sreenivasulu
M. E., Ph. D.
Professer & HOD CSE
K..S.R.M. College of Engineering
K A D A P A - 516 003

K.S.R.M. COLLEGE OF ENGINEERING
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Department of Computer Science & Engineering

Certificate Course on .Net Technology from 04/03/2019 to 23/03/2019

Attendance Sheet

S.No	Roll Num	Name of the Student	04/03/2019	05/03/2019	06/03/2019	07/03/2019	08/03/2019	09/03/2019	11/03/2019	12/03/2019	13/03/2019	14/03/2019	15/03/2019	16/03/2019	18/03/2019	19/03/2019	21/03/2019	22/03/2019	23/03/2019
1	159Y1A0501	Anakali Srikanth	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
2	159Y1A0502	Andela Venkata Rohitha Reddy	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
3	159Y1A0503	Andluru Lavanya	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
4	159Y1A0504	Anki Reddy Venkata Bhavana	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
5	159Y1A0505	Avula Shobhasankar Reddy	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
6	159Y1A0507	Bandapalli Vijaya Kumar Reddy	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
7	159Y1A0508	Bandi Narasimha Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
8	159Y1A0509	Bandlapalli Krishna Kishore	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	159Y1A0510	Bandlapalli Sravani	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
10	159Y1A0511	Beeram Geethanjali	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
11	159Y1A0512	Bhaskar Ashok Vinay Kumar	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
12	159Y1A0513	Bojja Bharath Kumar Reddy	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
13	159Y1A0514	Bojja Sireesha	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
14	159Y1A0515	Bokka Nagendra Bhavani	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P

#	Roll No	Name																	
15	159Y1A0516	Bontha Uma Devi	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
16	159Y1A0517	Boosa Sravani	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	159Y1A0518	Boreddy Madhava Reddy	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
18	159Y1A0519	Boya Chennappa Kushal Vardhan	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
19	159Y1A0520	Boya Kavitha	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
20	159Y1A0521	Buchupalli Venkata Raja Sree	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
21	159Y1A0522	Chakali Harikrishna	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
22	159Y1A0523	Challa Manjusha	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
23	159Y1A0524	Chamala Archana	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	159Y1A0525	Chappidi Pavan Kumar Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
25	159Y1A0526	Chavva Lakshmi Priya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
26	159Y1A0527	Chinta Madhuri	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
27	159Y1A0528	Chintam Nagamani	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	159Y1A0529	Chinthakunta Nikhitha	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
29	159Y1A0530	Chintham Harshavardhan Reddy	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
30	159Y1A0531	Dasari Anil Kumar Yadav	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	159Y1A0532	Dasari Sabareesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
32	159Y1A0533	Dondapati Rajesh	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
33	159Y1A0534	Donthu Roja Rani	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
34	159Y1A0535	Dunnuthala Yasaswini	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
35	159Y1A0536	Ediga Sai Hanuman	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
36	159Y1A0537	Ediga Tatipi Sai Mounika	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
37	159Y1A0538	Epparlla Ramadevi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	
38	159Y1A0539	Esikala Sai Prasanth	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
39	159Y1A0540	Etigowni Guruprakash Gowd	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
40	169Y1A0501	Anakali Srikanth	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	
41	169Y1A0545	Kapumulinti Mounika Reddy	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
42	169Y1A0546	Karnati Narasimha Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	
43	169Y1A0547	Kataboina Lakshmi Eswaramma	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
44	169Y1A0548	Kattela Ravikumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	
45	169Y1A0549	Ketham Vara Lakshmi	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
46	169Y1A0550	Kokatam Maheswarreddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P

No	ID	Name																
47	169Y1A0551	Konduru Babitha	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
48	169Y1A0552	Konnepalli Valasala Sai Adithya	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
49	169Y1A0553	Kotha Suman Kumar Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
50	169Y1A0554	Kristipati Rajeswara Reddy	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A
51	169Y1A0555	Kummathi Anilkumarreddy	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
52	169Y1A0556	Kuncham Supraja	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
53	169Y1A0557	Kuppala Sai Kusuma	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P

Coordinator

HoD

K.S.R.M. COLLEGE OF ENGINEERING

(UGC - Autonomous)
Kadapa, Andhra Pradesh, India– 516 003
Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

Department of Computer Science & Engineering

Certification course

on
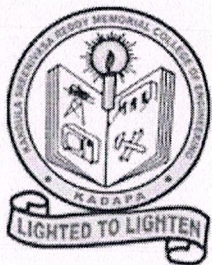
.net TECHNOLOGY

04-March-2019 to 23-March-2019

Coordinator
Mr. S. Khaja Khizar
Resource persons
Mrs. V. Sudha
Mrs. B. Swetha

🕐 4 Pm - 6 Pm

venue : MB 210
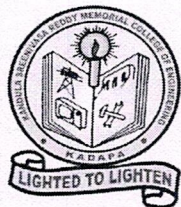
K.S.R.M. COLLEGE OF ENGINEERING
(AUTONOMOUS)
Pulivendala Road, Kadapa-516 005
Andhra Pradesh, India
Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.
An ISO 14001:2004 & 9001: 2015 Certified Institution

ACTIVITY REPORT

Certification Course

On

.Net Technology
04/03/2019 to 23/03/2019

Target Group	:	**B.Tech VI and VIII Semester Students**
Details of Participants	:	**53 Students**
Coordinator	:	**Mr. S. Khaja Khizar** **Asst. Prof, Dept. of CSE, KSRMCE**
Organizing Department	:	**Computer Science & Engineering**
Venue	:	**Web Technologies Lab (MB 210)**

Description: Certification course on ".Net Technology" was organized by Dept. of CSE from 04/03/2019 to 23/03/2019. Mr. S. Khaja Khizar acted as Course Coordinator and Mrs. V.Sudha and Mrs. B. Swetha acted as Resource Persons. The course is designed to provide complete knowledge of .Net Technology and to enhance the programming skills of the students by giving practical assignments to be done in labs. Thirty Two hours course was successfully completed and participation certificates were provided to the participants.

Event Photos:

K.S.R.M Administration Building, KSRM Hostel Rd, Andhra Pradesh 516003, India
Latitude **14.477354°** Longitude **78.766248°**
LOCAL 16:50:12 GMT 04:50:12 MONDAY 04.03.2019 ALTITUDE 30 METER
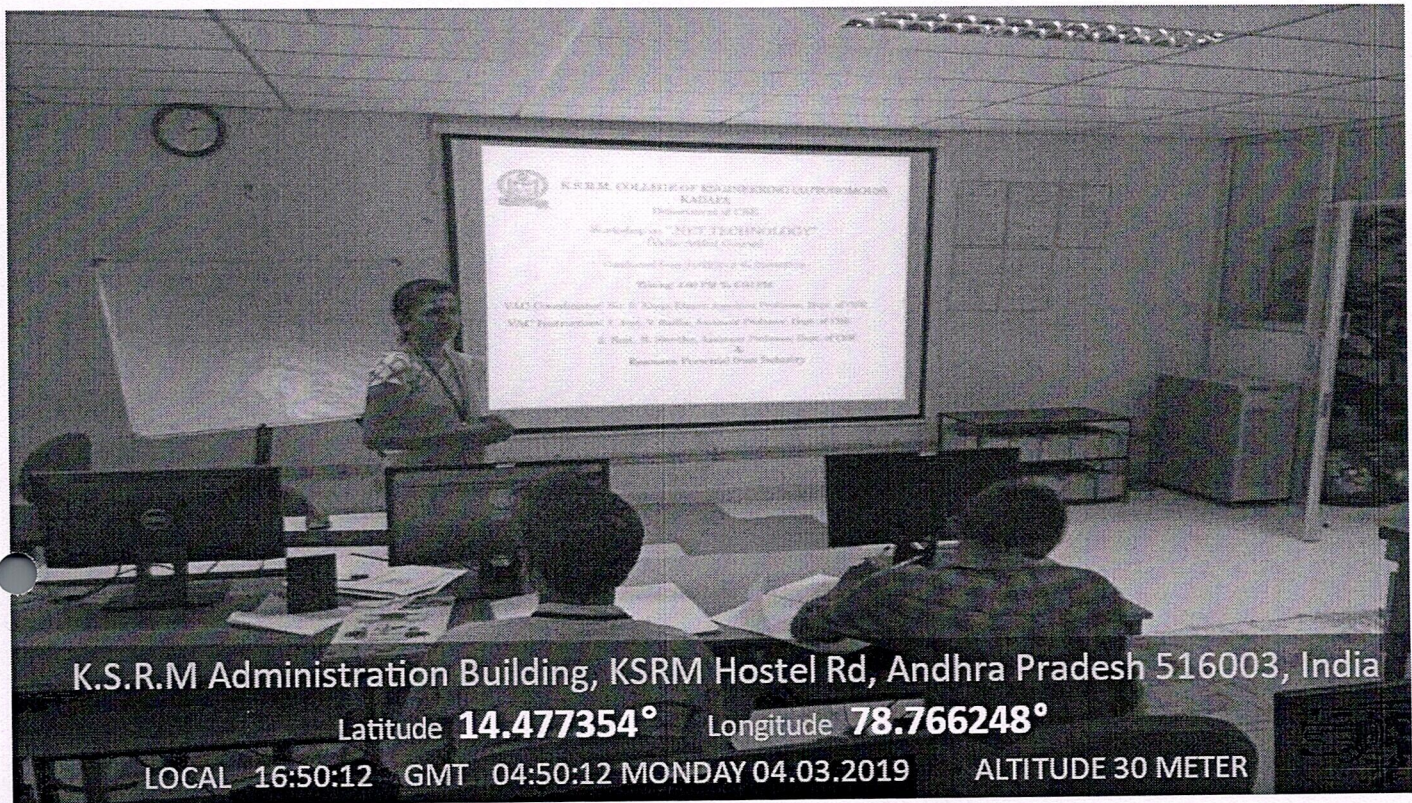
Resource person give brief overview about .Net Technology

K.S.R.M Administration Building, KSRM Hostel Rd, Andhra Pradesh 516003, India
Latitude **14.477354°** Longitude **78.766248°**
LOCAL 16:50:12 GMT 04:50:12 THURSDAY 14.03.2019 ALTITUDE 30 METER
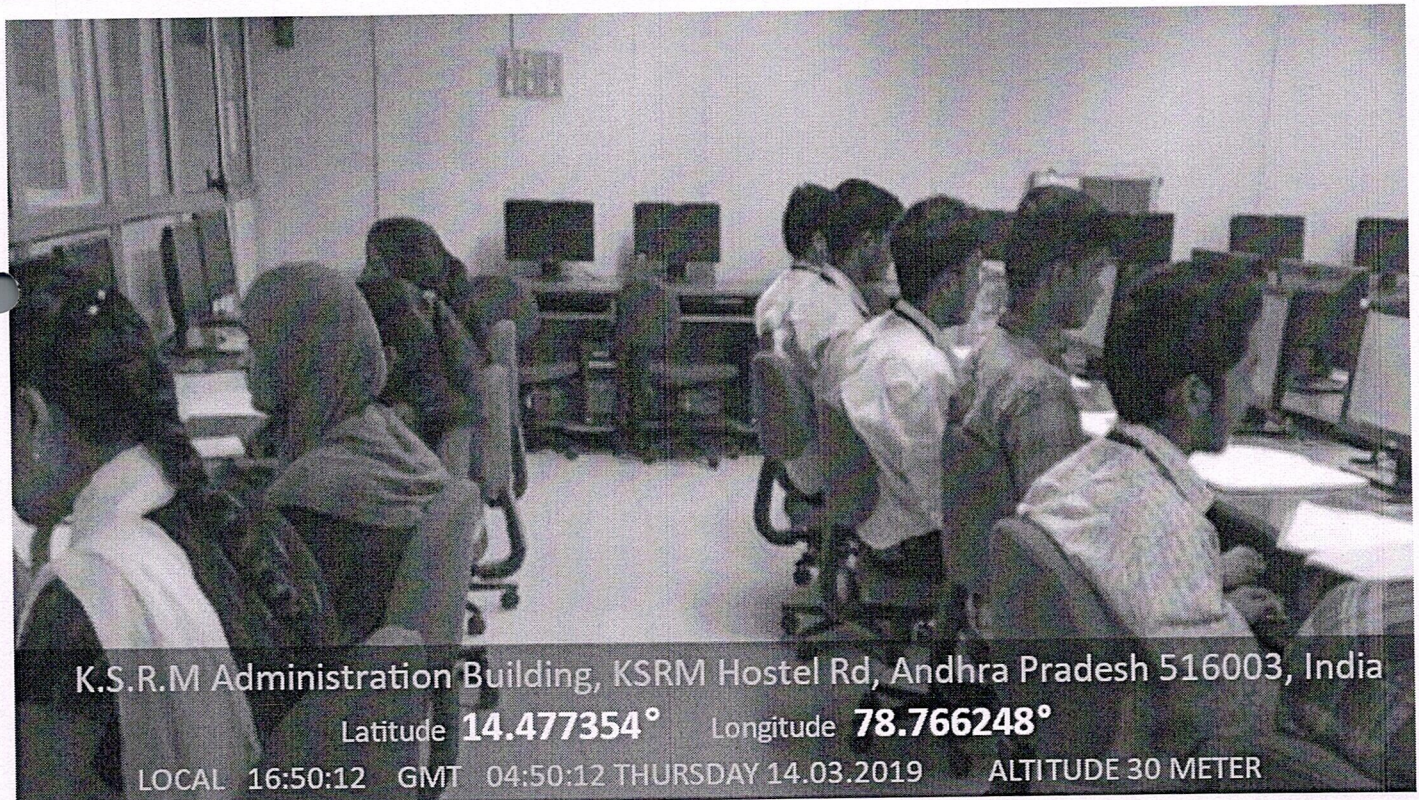
Students participated in practical session

K.S.R.M Administration Building, KSRM Hostel Rd, Andhra Pradesh 516003, India
Latitude **14.477354°**   Longitude **78.766248°**
LOCAL 16:53:42   GMT 04:53:42 SATURDAY 23.03.2019   ALTITUDE 30 METER

Certificate Distribution

Coordinator

HoD

Dr. M. Sreenivasulu,
M. E , Ph. D.
Professer & HOD CSE
K.S.R.M. College of Engineering
K A D A P A - 516 003

K.S.R.M. COLLEGE OF ENGINEERING

(UGC - Autonomous)

Kadapa, Andhra Pradesh, India– 516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Miss. _B. Uma Devi_ bearing Roll Number. _159Y1A0516_ participated in a certification course on "**.Net Technology**" organized by department of Computer Science and Engineering from 04-03-2019 to 23-03-2019.

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This is to certify that Mr/Miss. ___C. Harikrishna___ bearing Roll Number. ___159Y1A0588___ participated in a certification course on "**.Net Technology**" organized by department of Computer Science and Engineering from 04-03-2019 to 23-03-2019.

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FEEDBACK FORM

Certificate Course on ".Net Technology", from 04-03-2019 to 23-03-2019
Organized
by
Department of Computer Science & Engineering

NAME:

Roll No:

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by resource person.					
2	Clarity in content delivery.					
3	Content is relevant and useful.					
4	Adequate opportunity to interact with resource person.					
5	Judicious mix of concepts, principles and practices.					
6	Assignments and tasks are interesting and challenging.					

Any suggestions for improvement.

Signature

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FEEDBACK FORM

Certificate Course on ".Net Technology", from 04-03-2019 to 23-03-2019

Organized
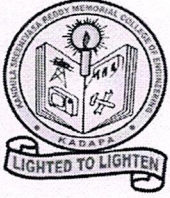
by

Department of Computer Science & Engineering

NAME: 1594IA0501, A-Sreekanth

Roll No: 1594IA0501

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by resource person.	✓				
2	Clarity in content delivery.	✓				
3	Content is relevant and useful.	✓				
4	Adequate opportunity to interact with resource person.	✓				
5	Judicious mix of concepts, principles and practices.	✓				
6	Assignments and tasks are interesting and challenging.	✓				

Any suggestions for improvement.

Sree

Signature

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FEEDBACK FORM

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Department of Computer Science & Engineering

NAME: A·V·Rohitha Reddy

Roll No: 15941A0502

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by resource person.	✓				
2	Clarity in content delivery.	✓				
3	Content is relevant and useful.	✓				
4	Adequate opportunity to interact with resource person.	✓				
5	Judicious mix of concepts, principles and practices.	✓				
6	Assignments and tasks are interesting and challenging.	✓				

Any suggestions for improvement.

A·V·R
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FEEDBACK FORM

Certificate Course on ".Net Technology", from 04-03-2019 to 23-03-2019
Organized
by
Department of Computer Science & Engineering

NAME: A. Lavanya

Roll No: 159Y1A0503

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by resource person.	✓				
2	Clarity in content delivery.	✓				
3	Content is relevant and useful.	✓				
4	Adequate opportunity to interact with resource person.		✓			
5	Judicious mix of concepts, principles and practices.	✓				
6	Assignments and tasks are interesting and challenging.	✓				

Any suggestions for improvement.

Signature

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Department of Computer Science & Engineering

NAME: Anki Reddy Venkata Bhavani

Roll No: 159Y1A0504

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by resource person.	✓				
2	Clarity in content delivery.		✓			
3	Content is relevant and useful.	✓				
4	Adequate opportunity to interact with resource person.		✓			
5	Judicious mix of concepts, principles and practices.	✓				
6	Assignments and tasks are interesting and challenging.	✓				

Any suggestions for improvement.

—

V-Bhavani
Signature

1

Introduction to .NET

- Content :
  - Introduction to .NET Technology
  - Introduction to Web Based Applications
  - Introduction to ASP.NET

.NET Framework Objectives

- **The .NET Framework is designed to fulfill the following objectives:**
  - Provide object-oriented programming environment
  - Provide environment for developing various types of applications, such as Windows-based applications and Web-based applications
  - To ensure that code based on the .NET Framework can integrate with any other code

---

Common Language Specification

CLS performs the following functions:

- Establishes a framework that helps enable cross-language integration, type safety, and high performance code execution
- Provides an object-oriented model that supports the complete implementation of many programming languages
- Defines rules that languages must follow, which helps ensure that objects written in different languages can interact with each other

---

Introduction to .NET Technology

.NET Framework

VB	C++	C#	JScript	...

Common Language Specification

ASP.NET	Windows Forms	ADO.NET

Base Class Library

(CLR) Common Language Runtime

Operating System

Visual Studio 2008
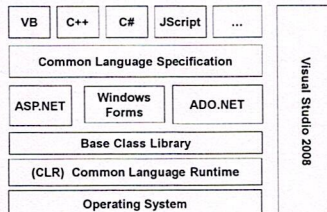
.NET Framework Base Class Library

- The Class Library is a comprehensive, object-oriented collection of reusable types
- These class library can be used to develop applications that include:
  - Traditional command-line applications
  - Graphical user interface (GUI) applications
  - Applications based on the latest innovations provided by ASP.NET
    - Web Forms
    - XML Web services

Unified Classes
Web Classes (ASP.NET)
Controls, Caching, Security, Debbger, Configuration etc.

Data (ADO.NET)	Windows Forms
ADO, SQL Types etc.	Design, Control Model etc.
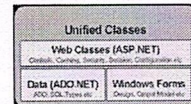
What is .NET ?
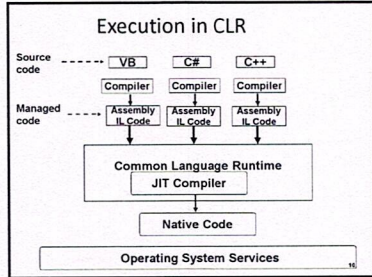
Microsoft.NET is a Framework

- Microsoft .NET is a Framework which provides a common platform to Execute or, Run the applications developed in various programming languages.

- Microsoft announced the .NET initiative in July 2000.

- The main intention was to bridge the gap in **interoperability** between services of various programming languages.
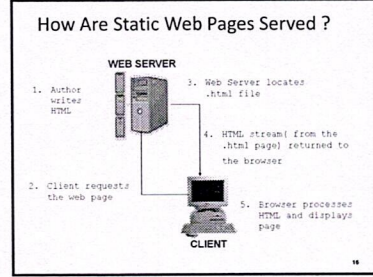

- **The .NET Framework consists of:**

  - **The Common Language Specification (CLS)**
    It contains guidelines, that language should follow so that they can communicate with other .NET languages. It is also responsible for Type matching.
  - **The Framework Base Class Libraries (BCL)**
    A consistent, object-oriented library of prepackaged functionality and Applications.
  - **The Common Language Runtime (CLR)**
    A language-neutral development & execution environment that provides common runtime for application execution .

Common Language Runtime (CLR)

- **CLR ensures:**
  - A common *runtime* environment for all .NET languages
  - Uses *Common Type System (strict-type & code-verification)*
  - Memory allocation and garbage collection
  - Intermediate Language (IL) to native code compiler. Which Compiles MSIL code into native executable code
  - Security and interoperability of the code with other languages
- **Over 36 languages supported today**
  - C#, VB, Jscript, Visual C++ from Microsoft
  - Perl, Python, Smalltalk, Cobol, Haskell, Mercury, Eiffel, Oberon, Oz, Pascal, APL, CAML, Scheme, etc.

Execution in CLR

Source code — VB | C# | C++
Compiler | Compiler | Compiler
Managed code — Assembly IL Code | Assembly IL Code | Assembly IL Code

Common Language Runtime
JIT Compiler

Native Code

Operating System Services

C# Features

- Simple
- Modern
- Object-Oriented
- Type-safe
- Versionable
- Compatible
- Secure

How Are Static Web Pages Served ?

WEB SERVER

1. Author writes HTML
2. Client requests the web page
3. Web Server locates .html file
4. HTML stream(from the .html page) returned to the browser
5. Browser processes HTML and displays page

CLIENT

Visual Studio 2008 IDE

Microsoft has introduced `Visual Studio.NET`, which is a tool (also called Integrated Development Environment) for developing .NET applications by using programming languages such as `VB`, `C#`, `VC++ and VJ#`. etc.

Introduction to Web Based Applications

Dynamic web page

- Dynamic Web sites provide its visitors to modify the content of the web page based on their input.
- They utilize databases and other mechanisms that enable to
  - identify their visitors
  - present them with customized greeting messages
  - restructure the content according to user input etc..
- Examples:
  - Online shopping stores,
  - search engines
  - email
  - chat, community portals etc.

C# (C Sharp)

- Microsoft C# (pronounced C Sharp) developed by Microsoft Corporation, USA
- New programming language that runs on the .NET Framework
- C# is simple, modern, type safe, and object oriented
- C# code is compiled as managed code
- Combines the best features of Visual Basic, C++ and Java

Introducing Web Applications

Web Page
Static | Dynamic

Static web page
- This type of web page consists of HTML code typed directly into text or a web page editor
- It is saved as an `.htm` or `.html` file

- The content (text, images, hyperlinks, and so on) and appearance of a static web page is always the same.

- These web pages do not utilize any database or any other technology that dynamically builds up pages or content at runtime based on their visitors input.

Dynamic web page

- Dynamic Web sites make use of `"server-side technology"`.
- Server-side technologies add an extra layer to the static web page that enables the `Web Server` to generate HTML on the fly.
- The web server will first
  - interpret the server-side code present in web pages,
  - generate the appropriate HTML and then
  - send the response to the web browser.

How Are Dynamic Web Pages Served?

WEB SERVER

3. Web Server collects the contents (code + HTML) of the web page and parses the contents to produce HTML.

2. The Web Server searches for the requested page

4. The HTML stream is sent back to the requesting browser

1. The Web browser sends a request

5. Browser processes HTML and displays page

CLIENT

Introduction to ASP.NET

- It is built on .NET Common Language Runtime
- ASP.NET :
  - Provides better user authentication
  - Has better language support.
  - Has a large set of new controls (web controls)
  - Uses compiled code, which increases the performance of the applications
- It is programmable using any of the .NET languages (VB.NET, C#, VJ# etc).
- The ASP.NET pages are saved with the `.aspx` extension.

Advantages of ASP.NET

- Easy Programming Model
- Flexible Language Options
- Compiled Execution
- Rich Output Caching
- Web-Farm Session State
- Enhanced Reliability
- Master Pages
- Themes
- Improved Security
- Web Services
- Improved Performance and Scalability

Introduction to ASP.NET

ASP.net

Working of an ASP.NET Application

To execute an ASP.NET file, the following steps are followed:

1. A web browser sends a request for an ASP.NET file to the web server by using a URL.

2. The web server receives the request and retrieves the appropriate ASP.NET file from the disk or memory.

3. The web server forwards the file to the ASP.NET script engine for processing.

ASP.NET Script Engine

WEB SERVER

CLIENT

Visual Studio 2008 IDE

Title Bar

Menu Bar

Tool Box

Document window

Solution Explorer

Properties Window

Status Bar

Introduction to ASP.NET

- ASP.NET is part of the Microsoft .NET framework
- ASP.NET is an effective and flexible technology for creating interactive and dynamic web pages.
- It is a convergence of two major Microsoft technologies:
  - Active Server Pages (ASP)
    - Active Server Pages is Microsoft's server side scripting technology for building dynamic web pages.
  - .NET Framework
    - The .NET Framework is a suite of technologies designed by Microsoft where program development takes place.

Working of an ASP.NET Application

4. The ASP.NET script engine reads the file from top to bottom and executes it.

5. The processed ASP.NET file is generated as an HTML document and the ASP.NET script engine sends the HTML page to the Web server.

6. The Web server then sends the HTML code to the client which interprets the output and displays it.

ASP.NET Script Engine

WEB SERVER

CLIENT

Creating a New Web Application

- To start a new Web Application in VS 2008, Click the *Create Web Site* button on the Start page or Select File > New > Web Site

- The New Web Site allows you to choose:
  - Templates
  - Language for creating an application
  - Location where the application will be created

Creating a New Application (Continued)

- After you create a new Web Application, Default.aspx page is added to this Website. To Rename this page, *Select* the page from the Website node in the *Solution Explorer > Right Click > Rename*.

- Files can be added to the Project, using Solution Explorer:
  - Right click on the project node, in the *Solution Explorer*, and select the option *Add New Item*.
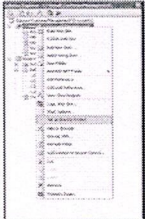 - The *Add New Item* window will popup.
  - Select the type of file (item) to be added and click on Add.

Toolbox

- To add controls in the *Design Window* use *Toolbox*.
- There are various *tool tabs* available in the Toolbox.
  - The controls in the IDE are presented in a hierarchical manner (e.g., Standard Tab, Data Tab, Validation, Navigation, WebParts etc.).
  - Depending on the type of project (application) the *toolbox tabs* will vary.
- To view the tool box:
  - Select menu *View > Toolbox*
  - OR
  - Press buttons *Ctrl+Alt+X or Ctrl+W, X*
- You can also view the controls as icons by right-clicking on the toolbox you want to change and deselecting the List View.

Project Settings

- *Project Settings* can be adjusted using various options in the *Project Properties* menu or by using the *Solution Explorer* window.
  - *These settings change based on the type of application developed.*
- Setting *Startup Page*:
  - *Right Click on the form you want set as the startup page in the Solution Explorer.*
  - Select option *Set As Start Page*.
- *Startup Project* (In case of multiple projects):
  - *Right Click on Project to set as startup project in the Solution Explorer.*
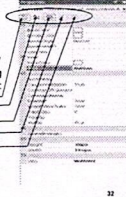 - Select Option *Set As StartUp Project*.

Solution Explorer

- Presents *a tree view structure* of files present in the project.
  - By default a New Website will contain:
    - An App_Data folder
    - A Default.aspx page (including Default.aspx.cs)

To view Solution Explorer:
- *Select View > Solution Explorer*
OR
- *Press buttons Ctrl+W,S*

Properties Window

- To *view or change* the *properties* and *events* of a selected control during design use the *Properties Window*
- To configure a control:
  - Click once to select it
  - Press F4 or Select menu *View > Properties window*
  - Modify the appropriate properties in the window
- There are various options provided for viewing the properties of the selected control, such as:
  - *Categorized view*
  - *Alphabetical view*
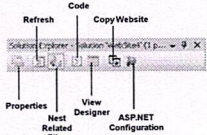 - *Properties view (default)*
  - *Events View*
  - *Property pages*

Resources

- Visual Studio 2008 Website
  http://msdn.microsoft.com/vstudio/

Solution Explorer (Continued)

- The Toolbar at the top of Solution Explorer enables various tasks.

Code
Refresh   CopyWebsite

Properties
    Nest   View
    Related   Designer   ASP.NET
    Files   Configuration

Adding an Event

- Events can be added to the code in one of three ways:
  1. *Double clicking* a *control* in design view
  2. *Typing* the code manually
  3. Selecting the Events Icon and double clicking the required event from the Properties Window

Questions and Comments

???