Criterion II – Teaching-Learning and Evaluation

Metric No.	Key Indicator - 2.3 Teaching - Learning Process
2.3.2 QM	*Teachers use ICT-enabled tools including online resources for effective teaching and learning:* Effective content delivery by using ICT tools in the class room is adopted by the faculty for better understanding and strengthening of the concepts. They use a diverse set of ICT tools to teach, create, communicate, circulate, store and manage information. ICT tools enhance the teaching-learning methods through approaches as replacing chalkboards with interactive digital whiteboards. The faculty are trained for the efficient use of tools through training sessions at the institute and/or faculty development programmes conducted by IITB, Mumbai. Teaching/Learning methodologies include the use of ICT tools for illustrations and special lectures, field study, case-studies, project-based-methods, experimental methods, flipped class room sessions etc better prepared to deal with ongoing technological change in society and workplace. We have one Smart classroom, each with audio and video facility. The faculty members make use of this facility for classroom teaching, interactive sessions and project presentation by the students. The Power point presentations, video conferencing, video streaming, google class room are used to provide audio visual experience to the students. The NPTEL video lectures are adopted. We use MOODLE, a learning management system that facilitate the faculty in creating quality online courses & ICT enabled teaching. It also enables monitoring of student's learning process through online quizzes, submission of online assignments etc. Collaborative learning is facilitated using google colabs. ICT enabled Teaching – Learning Process is supported with Regular Practical Sessions, access to Digital Library, Online Courses (Coursera, NPTEL etc.,), online journals, online tests, Use of LCD projectors for seminars and workshops, educational videos, and accessibility of non-print material for students. Communication skills training facility is enriched with ICT tools to make the students acquire proficiency in listening, speaking, reading and writing skills. **Link to the webpage describing ICT-enabled :** http://www.pvpsiddhartha.ac.in/dep_it/lecture%20notes/oop/Unit5.pdf **File Description:** • Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process • Upload any additional information

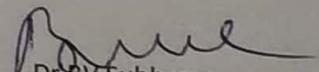# PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU VIJAYAWADA

DEPARTMENT OF INFORMATION TECHNOLOGY

Seminar/FDPs/Workshops/ Guest Lecturers Faculty Attended Using ICT

Academic year- 2020-21

S.NO	Topic	Faculty Name	Dates
1.	One week , 12 Hours online FDP on APEX PROGRAMMING FUNDAMENTALS conducted by ICT Academy	Mr G Venu gopal	19.10.2020 To 24.10.2020
2.	Completed FDP on faculty programme on Moodle test for teachers Spoken tutorial by IIIT Bombay, funded by National mission on Education through ICT	Mrs K Sri Vijaya DR D Kavitha Mr Ch Chandra Mohan Mrs Y Padma Mr IMV Krishna Mrs J sisrisha P Raviprakash Dr K Pavan kumar Dr R Viajyakumar Reddy	25..09.2020
3.	Two week online FDP on ICT TOOLS FOR TEACHING ,LEARNING PROCESS &INSTITUTE jointly organised by ELCTRONICS &ICT ACADAMY of (MeitY) govt of India by NIT Patna, PDPM IIITM Jabadalpur, IIT Guwhati &IIT Roorki	Mrs G Reshma Mrs K Swarupa Rani Mrs D Leela Dharani	10.08.2020 To 21.08.2020
4.	One week online certification on DIGITAL TEACHING TECHNIQUES organised by ICT Academy	Dr Y Suresh	29.06..2020 T0 04.07.2
5.	2 Week Lecture series on Research Trends In ICT by school of Information &Communication Technology at GAUTAM BUDDHA UNIVERSITY ,Noida UP	Mrs D Leela Dharani	29.06..2 T0 09.07.2020

Dr BV Subbarao

HOD -IT

HEAD
Information Technology Department
PRASAD V.POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY
KANURU, VIJAYAWADA-520 007.

Ref: EICT/NITP-MNITJ/99/ECE/1636/2020

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सत्यमेव जयते

ELECTRONICS INDIA
Billion Needs Million Chips

Electronics & ICT Academies
NIT Patna, MNIT Jaipur, PDPM IIITDM Jabalpur, IIT Guwahati and IIT Roorkee

Certificate of Participation

This is to certify that **Dr./Mr./Ms. Donepudi Leela Dharani** from **PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY** has participated in a two-week Online Faculty Development Programme on **"ICT Tools for Teaching, Learning Process and Institute"** jointly organized by Electronics and ICT Academies held from **10th - 21st August**, **2020** under the **"Scheme of financial assistance for setting up of Electronics and ICT Academies"** of the **Ministry of Electronics and Information Technology (MeitY), Government of India**. She /He has successfully completed programme and has earned _Excellent_ grade. We wish him/her a very good luck for his/her future endeavor.

Dr. Bharat Gupta
Principal Coordinator and CI, E&ICT Academy
NIT Patna

Dr. Amit M Joshi
Co-Principal Coordinator
MNIT Jaipur

Date of Issue: 21st August 2020

regression - Notepad

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```
Supervised Learning
1.  Classification: label type--categorical(Gender, qualification)
2.  Regression: label type -- continous(ht. of a person, wt. of a person, price of product)
    2.1 Linear Regression: classify data with a straight line(degree  = 1)
                y = mx + c => y = wx + b
                                w = weight.(slope)
                                b = bias(intercept)
        2.1.1: Simple Linear Regression:
                if you have only one feature and one class label
                eg.
                1.  X: 0              1      2
                    y: 0.1     0.2    0.3    0.4
                2.  prediction of height based on age.
                Feature(X): age
                Class(y): height
                    height = w*age + b
        2.1.2: Multi Linear Regression:
                if you have more than one feature and one class label
            eg. prediction of height based on age and gender.
                    Features(X):age, gender
                    class(y): height
                        height = w1*age + w2*gender + b

    2.2 Non-Linear Regression: classify data with a curve(degree > = 2)
        y = x pow theta
```

Mr. Ch. Praneeth

48:43   1:04:16

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airtel

Untitled6.ipynb - Colaboratory
https://colab.research.google.com

Untitled6.ipynb

File Edit View Insert Runtime Tools Help   All changes saved

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+ Code   + Text   RAM   Editing
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```python
import time;
start = time.time()
from sklearn.neighbors import KNeighborsClassifier
knn_prediction = KNeighborsClassifier(n_neighbors=5)
knn_prediction.fit(X_train_scaled, y_trainset) #training the model
```

```
---------------------------------------------------------
NameError                       Traceback (most recent call last)
<ipython-input-18-263c2c12748a> in <module>()
      3 from sklearn.neighbors import KNeighborsClassifier
      4 knn_prediction = KNeighborsClassifier(n_neighbors=5)
----> 5 knn_prediction.fit(X_train_scaled, y_trainset) #training the model

NameError: name 'X_train_scaled' is not defined
```

SEARCH STACK OVERFLOW

```python
[17] prediction = knn_prediction.predict(X_test_scaled)
     end = time.time()
```

Mr. Ch. Praneeth

1:02:44   1:04:16