A Report

on

Teacher Training Program on Python Programming for PG Teachers (Computer Science) of Navodaya Vidyalaya Samiti (NVS) - MHRD

(08.05.2019-20.05.2019)

Table of Content

REGISTRAR
Manipal University Jaipur

MANIPAL UNIVERSITY JAIPUR

Navodaya Vidyalaya Samiti

Two Weeks Teacher's Training Programme for PGT (Computer Sc.)

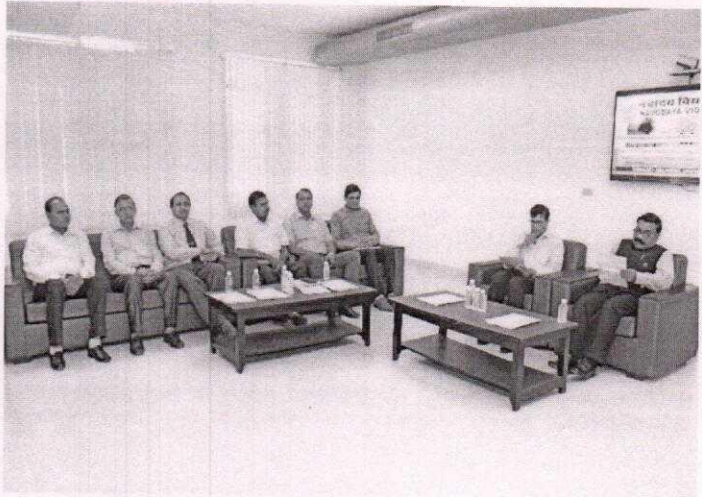## Inaugural Schedule

Date: May 8, 2019

Time: 10:00 AM Onwards

Venue: Room No. 105, Academic Building-1

Dignitaries:

1. Shri B K Singh, Commissioner- NVS
2. Prof G K Prabhu– President, MUJ
3. Shri B L Morodia, Dy Commissioner-NVS
4. Prof H Ravishankar Kamath – Registrar, MUJ
5. Prof Jagannath Korody Dean-FOE, MUJ
6. Prof Rajveer Singh Shekhawat- Director- SCIT, MUJ
7. Prof V S Dhaka –Professor & Head-CCE, MUJ

S.No.	Detail(s)	Dur.	Time	Remarks
1.	Training Introduction	03 Min	10:00-10:03	By Anchor/MC
2.	Welcome & felicitation of the Commissioner-NVS and Dy Commissioner	04 Min	10:03-10:07	• Commissioner-NVS by President-MUJ • Dy Commissioner by Registrar-MUJ • Dy Commissioner to present • Bouquet to all other dignitaries on dais
3.	Lighting of Lamp	02 Min.	10:07-10:09	All Dignitaries
4.	Welcome Address	05 Min.	10:09-10:14	Dy Commissioner
5.	About Training Schedule	06Min	10:14-10:20	Dr V S Dhaka
6.	Self-Introduction	10 Min	10:20-10:30	by Participants
7.	Address by President-MUJ	5 Min.	10:30-10:35	
8.	Address by Commissioner-NVS	8 Min	10:35-10:43	
9.	Vote of Thanks	02 Min.	10:43-10:45	
	High Tea (10:50 AM - 11:20 AM)			

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DATE	TIME	DESCRIPTION
8th May 2019	9.30 am – 11.00 am	Inaugural Ceremony Venue: Manipal University Jaipur
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Basic concepts of Programming
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	Introduction to Python, Applications, Installation process (Different versions of Python)
	3.30 pm – 3.45 pm	Tea Break
	3.45 pm – 4.45 pm	Input/output in Python, Runtime input, Compile time input
	4.45 pm – 5.10 pm	Assessment on covered concepts
9th May 2019	9.00 am – 11.00 am	Storage classes: Data types, keyword, identifier, constant, variable
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Practice session
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	Operators : Arithmetic, relational, logical, bitwise etc.
	3.30 pm – 3.45 pm	Tea break
	3.45 pm – 4.45 pm	Practice session on operators
	4.45 pm – 5.10 pm	Assessment on covered concepts
10th May 2019	9.00 am – 11.00 am	Decision constructs: *if, else,* nested *if-else, switch* etc.
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Practice session on decision constructs
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	Loop constructs : Entry control loops (*for* and *while* loop)
	3.30 pm – 3.45 pm	Tea break
	3.45 pm – 4.45 pm	Practice session on Loops

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	4.45 pm – 5.10 pm	Assessment on covered concepts
11th May 2019	9.00 am – 11.00 am	Loop constructs : Exit control loop (*do-while* loop)
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Practice session on applications using loop constructs
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	Array(1-D) : Basic concept of Array (1-D array) with memory representation
	3.30 pm – 3.45 pm	Tea break
	3.45 pm – 4.45 pm	Practice session on 1-D Array
	4.45 pm – 5.10 pm	Assessment on covered concepts
13th May 2019	9.00 am – 11.00 am	Array(2-D) : Concept of 2-D Array
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Practice session on 2-D Array
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	Array operations: Addition, deletion, search array element
	3.30 pm – 3.45 pm	Tea break
	3.45 pm – 4.45 pm	Practice session on Array operations
	4.45 pm – 5.10 pm	Assessment on covered concepts
14th May 2019	9.00 am – 11.00 am	List : Concept of List
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Comparison between List and Array with practice problems
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	Function : Introduction to Function, need of function, syntax
	3.30 pm – 3.45 pm	Tea break
	3.45 pm – 4.45 pm	Function declaration, function call with examples

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	4.45 pm – 5.10 pm	Assessment on covered concepts
15th May 2019	9.00 am – 11.00 am	About pre-defined functions in Python
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Practice session on pre-defined functions
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	About User-defined functions in Python
	3.30 pm – 3.45 pm	Tea break
	3.45 pm – 4.45 pm	Practice session on user-defined function
	4.45 pm – 5.10 pm	Assessment on covered concepts
16th May 2019	9.00 am – 11.00 am	String : Basic concept of String, declaration, initialization etc.
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Practice session on Strings
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	String functions with concepts
	3.30 pm – 3.45 pm	Tea break
	3.45 pm – 4.45 pm	Practice session on string manipulation
	4.45 pm – 5.10 pm	Assessment on covered concepts
17th May 2019	9.00 am – 11.00 am	List/Array concepts using Function
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Practice session
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	Dictionary : Concepts of Tuple and Dictionary
	3.30 pm – 3.45 pm	Tea break
	3.45 pm – 4.45 pm	Practice session on Tuple and Dictionary

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	4.45 pm – 5.10 pm	Assessment on covered concepts
18th May 2019	9.00 am – 11.00 am	Introduction to libraries in Python
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	About *numpy* library
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	About *matplotlib* pre-defined library
	3.30 pm – 3.45 pm	Tea break
	3.45 pm – 4.45 pm	Examples based on *matplotlib* library
	4.45 pm – 5.10 pm	Assessment on covered concepts
19th May 2019	9.00 am – 11.00 am	Database Connectivity in Python with mysql
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Practice session
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 3.30 pm	Django and Mongodb database with hands on practice
	3.30 pm – 3.45 pm	Tea break
	3.45 pm – 4.45 pm	Practice Session
	4.45 pm – 5.10 pm	Assessment on covered concepts
20th May 2019	9.00 am – 11.00 am	Two hours subjective assessment that all topics of python language
	11.00 am – 11.15 am	Tea break
	11.15 am – 1.00 pm	Application based problems using Python
	1.00 pm – 2.00 pm	Lunch
	2.00 pm – 4.30 pm	Closing Ceremony with Certificate distribution to all participants
	4.30 pm -5.00 pm	High Tea

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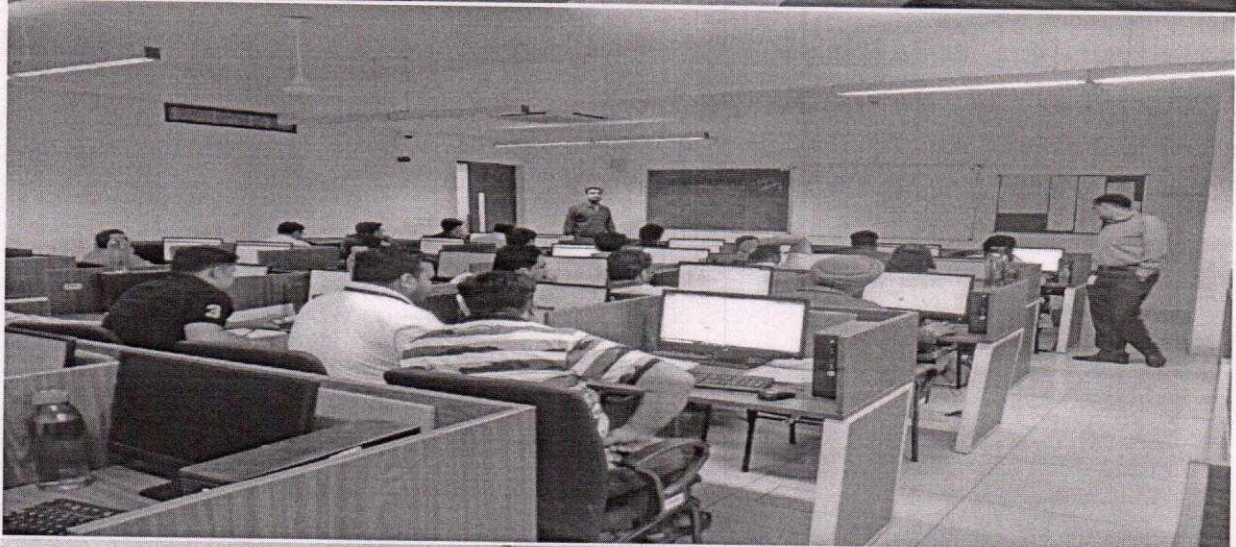
Event Summary

A Two Weeks Training program on Python programming was conducted at Manipal University Jaipur in collobaration with Navodya Vidyalaya Samiti for the teachers of Jawahar Navodya Vidyalyas from 8ᵗʰ May 2019 to 20ᵗʰ May 2019. The Training program was attended by 34 PGT teaches of Navodya Vidyalya Samiti from three different states Rajasthan, Delhi, Haryana.

During the two weeks training period, all days were divided into four sessions with two hours of interactive sessions and two hours' practice sessions.

In addition to the intense training program, a training session on conduction of online quizzes was organized. A brief visit of Labs along with the other University infrastructure was also arranged during this period. To maintain high level of learning discipline, a quiz on the topics covered on that day was conducted every day. All participants cleared the minimum qualifying criteria of 60% marks in the quizzes as well as the terminal evaluation conducted in the last session of the program. There were two standout performers scoring more than 85% marks in the continuous assessment: Smt. Anita Gupta from JNV Faridabad and Sh. Vikram Sachdev from JNV Panchkula. Comprehensive feedback session was conducted at the end of the program and specifically designed feedback forms have been collected from the participants.

Apart from the technical knowledge exchange, it was an opportunity well utilized for sharing best practices followed by the two major stake holders in the education sector, particularly during the breaks.

The participants have maintained great learning apatite throughout the training program and certainly helped to raise the level of content delivery. All the participant were awarded with the certificate of competency.

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Navodaya Vidyalaya Samiti

Two Weeks Teacher's Training Programme for PGT (Computer Sc.)

Closing Ceremony Schedule

Date: May 20, 2019

**Time: 3:00 PM Onwards**   **Venue: Room No. 105, Academic Block - 1**

Dignitaries:

1. Shri B L Morodia, Dy Commissioner-NVS
2. Sh S C Dhyani, Principal-NVS
3. Prof Rajveer Singh Shekhawat- Director- SCIT, MUJ
4. Prof V S Dhaka

S.No.	Detail(s)	Duration	Time	Remarks
1.	Welcome of Guest	02 Min	3:00-3:02	By MC
2.	Report of Training	04 Min	3:02-3:04	By Dr Sunil Kumar
3.	Feedback by Participants	02 Min.	3:04-3:07	
4.	Certificate Distribution	05 Min.	3:07-3:27	
5.	Vote of Thanks	06 Min	3:27-3:40	Sh. S C Dhyani (Principal)
	High Tea			

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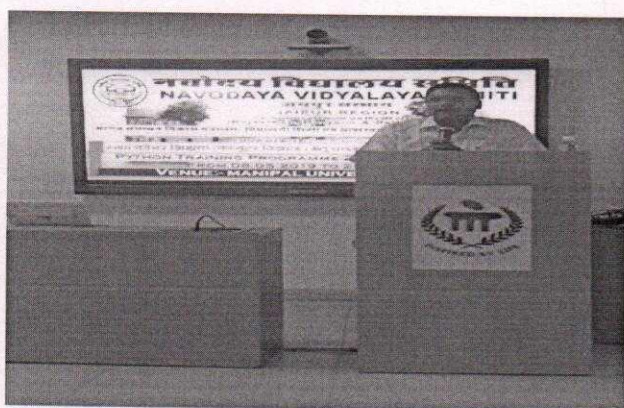
Organizing Team:

Prof. (Dr.)Vijaypal Singh Dhaka

Dr. Sunil Kumar

Mr. Nitesh Pradhan

Mr. Ankit Mundra

Mr. Pukhraj Parjapat

Mr. Gullaram Yadav

MANIPAL UNIVERSITY JAIPUR

Two Weeks Teachers' Training Program for PGT (Comp. Sc.)

Participant Feedback Form

On a scale of 1-5 where 1 is *Strongly disagree* and 5 is *Strongly Agree*, please circle the most appropriate answer.

1. The **workshop**:
   a. Was well-Paced   1   2   3   4   5 ✓
   b. Had sufficient Breaks   1   2   3   4   5 ✓
   c. Had a good mix between listening and activities 1   2   3   4   5 ✓

Comments: The workshop environment and Climate was very good.

2. The Workshop **content** was:
   a. Relevant   1   2   3   4   5 ✓
   b. Comprehensive   1   2   3   4   5 ✓
   c. Easy to understand   1   2   3 ✓ 4   5

Comments: _____

3. The activities were useful learning experiences   1   2   3   4   5 ✓

Comments: _____

4. The **facilitator** was:
   a. Knowledgeable   1   2   3   4   5 ✓
   b. Well Prepared   1   2   3   4   5 ✓
   c. Responsive to participants' questions   1   2   3   4   5 ✓

5. What did you **like the most** about this workshop? The presentation of material and hand on practice.

(2

6. How could this workshop be **improved** (Please use this space if you did not provide comments above)?

By providing the activities that are more reliable and relevant to audience.

7. How would you rate the hospitality provided? 1 2 3 4 5 ✓

Comments: _____ very good _____

8. How would you rate the University infrastructure? 1 2 3 4 5 ✓

Comments: _____ very good Infrastructure is best (in Surrounding Jaipur

9. Overall how would you rate the workshop? 1 2 3 4 5 ✓

Comments: _____ Excellent _____

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Two Weeks Teachers' Training Program for PGT (Comp. Sc.)

Participant Feedback Form

On a scale of 1-5 where 1 is *Strongly disagree* and 5 is *Strongly Agree*, please circle the most appropriate answer.

1. The **workshop**:
   a. Was well-Paced   1   2   3   4   **5**
   b. Had sufficient Breaks   1   2   3   4   **5**
   c. Had a good mix between listening and activities 1   2   3   4   **5**

   Comments: _____
   _____

2. The Workshop **content** was:
   a. Relevant   1   2   3   4   **5**
   b. Comprehensive   1   2   3   4   **5**
   c. Easy to understand   1   2   3   4   **5**

   Comments: _____
   _____

3. The activities were useful learning experiences 1   2   3   4   **5**

   Comments: _____ Daily online Test _____
   _____

4. The **facilitator** was:
   a. Knowledgeable   1   2   3   4   **5**
   b. Well Prepared   1   2   3   4   **5**
   c. Responsive to participants' questions   1   2   3   4   **5**

5. What did you **like the most** about this workshop? Mr Nitish Pandhan Sir was very very impressive. The way he delivered Knowledge was awsm. very very thanks to Mr Nitish Sir and all other faculty.

⑥

6. How could this workshop be **improved** (Please use this space if you did not provide comments above)?

_____

_____

_____

_____

7. How would you rate the hospitality provided?   1   2   3   4   5

Comments: _____ Excellent _____

_____

_____

8. How would you rate the University infrastructure?   1   2   3   4   5

Comments: _____ 5 Star _____

_____

_____

9. Overall how would you rate the workshop?   1   2   3   4   5 ✓

Comments: _____

Stood first among all
workshops I have attended
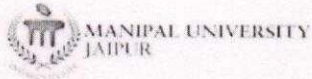
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Two Weeks Teachers' Training Program for PGT (Comp. Sc.)

Participant Feedback Form

On a scale of 1-5 where 1 is *Strongly disagree* and 5 is *Strongly Agree*, please circle the most appropriate answer.

1. The **workshop**:
   a. Was well-Paced   1   2   3   4   5
   b. Had sufficient Breaks   1   2   3   4   5
   c. Had a good mix between listening and activities 1   2   3   4   5

Comments: _Excellent place to be in & learn fruitfully._

2. The Workshop **content** was:
   a. Relevant   1   2   3   4   5
   b. Comprehensive   1   2   3   4   5
   c. Easy to understand   1   2   3   4   5

Comments: _Very well taught & explained_

3. The activities were useful learning experiences   1   2   3   4   5

Comments: _____

4. The **facilitator** was:
   a. Knowledgeable   1   2   3   4   5
   b. Well Prepared   1   2   3   4   5
   c. Responsive to participants' questions   1   2   3   4   5

5. What did you **like the most** about this workshop? _The methodology adopted by the facilitator and their positive attitude towards the participant_

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6. How could this workshop be **improved** (Please use this space if you did not provide comments above)?

_____

_____

_____

_____

7. How would you rate the hospitality provided?　　1　2　3　4　　5

Comments: _____

_____

_____

8. How would you rate the University infrastructure?　　1　2　3　4　　5

Comments: Excellent Infrastructure to have a positive impact on learning.

9. Overall how would you rate the workshop?　　1　2　3　4　　5

Comments: Learning environment in MUJ is very great.

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Two Weeks Teachers' Training Program for PGT (Comp. Sc.)

Participant Feedback Form

On a scale of 1-5 where 1 is *Strongly disagree* and 5 is *Strongly Agree*, please circle the most appropriate answer.

1. The **workshop**:
   a. Was well-Paced   1   2   3   4   5 ✓
   b. Had sufficient Breaks   1   2   3   4   5 ✓
   c. Had a good mix between listening and activities 1   2   3   4   5 ✓

Comments: Lab is very well managed and 24 hrs connected with internet with high speed

2. The Workshop **content** was:
   a. Relevant   1   2   3   4   5 ✓
   b. Comprehensive   1   2   3   4   5 ✓
   c. Easy to understand   1   2   3   4   5

Comments: Contents were very good and well prepared by the teachers especially Mr. Nitesh Pradhan

3. The activities were useful learning experiences   1   2   3   4   5 ✓

Comments: Yes very useful

4. The **facilitator** was:
   a. Knowledgeable   1   2   3   4   5 ✓
   b. Well Prepared   1   2   3   4   5 ✓
   c. Responsive to participants' questions   1   2   3   4   5 ✓

5. What did you like **the most** about this workshop? Over all every thing was fantastic. Good teachers good environment every thing was very good.

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6. How could this workshop be **improved** (Please use this space if you did not provide comments above)?

This workshop is surely very useful and helps us to deliver more knowledge to the students.

7. How would you rate the hospitality provided?   1   2   3   4   5 ✓

Comments: Very well. Every thing was good.

8. How would you rate the University infrastructure?   1   2   3   4   5 ✓

Comments: Excellent even I suggest teachers to visit the university and ask students to get admission there

9. Overall how would you rate the workshop?   1   2   .3   4   5 ✓

Comments: Excellent and very good.

Jin 20/5/19

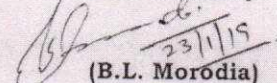F.No. 20-1/NVS-JR/Acad./2018-19/   January 23, 2019

To,

The Director,
Manipal University,
Jaipur (Rajasthan)

Sub.: Training programme of Python for PGT (Comp. Science) of JNVs – Reg.

Sir,

With reference to subject cited above, it is to inform that a two weeks training programme on Python Language for 35 PGT (Computer Science) of Jawahar Navodaya Vidyalayas is proposed to conduct at Manipal University, Jaipur. You are requested to send your acceptance in this regard and the complete proposal may be forwarded to this office at the earliest.

Yours faithfully

23/1/19

(B.L. Morodia)
Dy. Commissioner

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Manipal University Jaipur

Navodaya Vidyalaya Samiti, Regional Office, Jaipur
Training Programme on Python Programme
Revised List of PGT (Computer Science)

Date: 08ᵗʰ to 20 May 2019   **Venue : Manipal University, Jaipur**

Sl.No.	Name of PGT	Sex	Name of JNV	Region	Mobile No.
1	Mohd. Shahid	M	Ajmer	Jaipur	9983556703
2	Sh. Rajesh Agrawal	M	Bhilwara	Jaipur	9829620450
3	Ms. Maheshwari Devi	F	Churu	Jaipur	7891690400
4	Sh. Manoj Kumar Nirvan	M	Dholpur	Jaipur	9460172538
5	Sh. Rajeev Kumar Bajpai	M	Jaipur	Jaipur	9531045080
6	Sh. Balwan Singh	M	Jalore	Jaipur	8233093366
7	Sh. Ravi Rai	M	Jhalawar	Jaipur	9462143010
8	Sh. Yogesh Kumar Jangid	M	Karauli	Jaipur	9414568470
9	Sh. Mukesh Kumar	M	Nagaur	Jaipur	9414801641
10	Sh. Vinod Kumar Khandwal	M	Pali	Jaipur	9784849973
11	Sh. Dhiraj Jhamtani	M	Rajsamand	Jaipur	7665003183
12	Sh. Rupendra Kumar Prajapati	M	Sikar	Jaipur	9785809185
13	Sh. Sumer Singh Gour	M	Sirohi	Jaipur	8890880111
14	Sh. Rajesh Kumar Sharma	M	Tonk	Jaipur	9887779040
15	Sh. Samir Kumar	M	Ambala	Jaipur	9968238924
16	Sh. Naveen Kumar Varshney	M	Bhiwani	Jaipur	8683973918
17	Sh. Anita Gupta	F	Faridabad	Jaipur	9810067705
18	Ms. Sushma Yadav	F	Fatehabd	Jaipur	9416132622
19	Sh. Himanshu Tripathi	M	Hissar	Jaipur	9467258410
20	Sh. Vikash Yadav	M	Kaithal	Jaipur	6005288270
21	Ms. Anjali	F	Karnal	Jaipur	7015406016
22	Sh. Vedpal Chahal	M	Kurukshetra	Jaipur	8223846600
23	Sh. Sunil Kumar	M	Mohindergarh	Jaipur	9416266966
24	Sh. Vikram Sachdeva	M	Panchkula	Jaipur	9467508818
25	Sh. Ravi Shankar Yadav	M	Panipat	Jaipur	8396827015
26	Ms. Chetna	F	Rewari	Jaipur	9468427574
27	Sh. Mohammed Faruk	M	Sonepat	Jaipur	9199282440
28	Sh. Shiv Kumar	M	Yamunanagar	Jaipur	8813851223
29	Sh. Manoj Kumar	M	Delhi-I	Jaipur	9953736525
30	Ms. Shailja Singh	F	Delhi-II	Jaipur	9999894326
31	Mr. Sunil Kumar Nanda	M	Ganderbal	Chandigarh	9664101566
32	Ms. Megha Sharma	F	Udhampur	Chandigarh	7006443553
33	Mr. Lovenish Kumar Lamba	M	Jalandhar	Chandigarh	8146603170
34	Mr. Rakesh Garg	M	Ferozepur	Chandigarh	9992201148
35	Mr. Harddeep Singh	M	Ropar	Chandigarh	9815656804
36	Mr. Chalnchal Singh	M	Kathua	Chandigarh	9464579822

Dy. Commissioner 03/5/15

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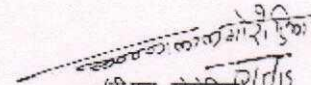फा.सं. 20–1/नविस–जरां/पी. /2010–20/   दिनांक . 17– 05– 2019

स्वीकृति आदेश

जयपुर एवं चण्डीगढ़ संभाग के पी.जी.टी. (कम्प्यूटर विज्ञान) के लिए Python Language पर प्रशिक्षण का आयोजन दिनांक 08–05–2019 से 20–05–2019 तक मणिपाल विश्वविद्यालय जयपुर में किया जाना सुनिश्चित है। प्रशिक्षण के आयोजन खर्च के लिए के लिए मणिपाल विश्वविद्यालय द्वारा रुपये 9,05,000/– (जी.एस.टी. कर 18 प्रतिशत अतिरिक्त) की धनराशि की मांग की गई है। अतः राशि रुपये 10,67,900/– (दस लाख सड़सठ हजार नौ सौ मात्र) मणिपाल विश्वविद्यालय, जयपुर को निम्नानुसार भुगतान की स्वीकृति प्रदान की जाती है।

बैंक का नाम	:	State Bank of India
ब्रांच का नाम	:	Bhankrota, Jaipour
खातेधारक का नाम	:	Manipal University, Jaipur
खाता संख्या	:	31805980405
IFSC कोड	:	SBIN0011396
MICR कोड	:	302002036

यह धनराशि का प्रशिक्षण पद में इन्द्र्ज किया जावें।

(डी.एल. मोरोड़िया)
उपायुक्त

प्रति.

अहरण एवं संवितरण अधिकारी,
नवोदय विद्यालय समिति,
क्षेत्रीय कार्यालय, जयपुर को इस नेर्देश के अनुसार की उक्त धनराशि का भुगतान अविलम्ब किया जाना सुनिश्चित करें

प्रतिलिपि :–

1. श्री विजयनल सिंह ढ़ाका, प्रमुख, कम्प्यूटर एवं संचार विभाग, मणिपाल युनिवर्सिटी, जयपुर अजमेर एक्सप्रेस हाईवे, गाँव दहमी कला, जी.बी.के. टोल प्लाजा के पास, जयपुर को सूचनार्थ।

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