

B.O.S. on 03/10/2018

S. No.	Code	Course Title	L	T	P	Contact Hrs./Week	Credits
1	SET/CS/BT/C701	Artificial Intelligence	3	1	-	4	3
2	SET/CS/BT/C702	Embedded System	3	1	-	4	3
3	SET/CS/BT/C703	Wireless and Mobile Computing	3	1	-	4	3
4		Elective I	3	1	-	4	3
5		Elective II	3	1	1	4	3
6	SET/CS/BT/C706	Artificial Intelligence Lab	-	-	1	2	1
7	SET/CS/BT/C707	Embedded System Lab	-	-	1	2	1
8	SET/CS/BT/C708	Project Work - I	-	-	2	4	2
9	SET/CS/BT/S709	Industrial Training Seminar	-	-	1	2	1
Total			15	5	5	30	20

Elective I	S. No.	Code	Course Title
	1	SET/CS/BT/E721	Security Architecture & Operating System Security
	2	SET/CS/BT/E722	Neural Network
	3	SET/CS/BT/E723	Real Time System

Elective II	S. No.	Code	Course Title
	1	SET/CS/BT/E731	Cloud Computing
	2	SET/CS/BT/E732	Distributed Computing
	3	SET/CS/BT/E733	Digital Image Processing

Semester VIII

S. No.	Code	Course Title	L	T	P	Contact Hrs./Week	Credits
1	SET/CS/BT/C801	UNIX Shell Programming	3	1	-	4	3
2	SET/CS/BT/C802	Cyber Security and Ethical Hacking	3	1	-	4	3
3		Elective III	3	1	-	4	3
4		Elective IV	3	1	-	4	3
5	SET/CS/BT/C805	Unix Shell Programming lab	-	-	1	2	1
6	SET/CS/BT/C806	Cyber Security and Ethical Hacking lab	-	-	1	2	1
7	SET/CS/BT/C807	Project and Dissertation	-	-	6	12	6
Total			12	4	8	32	20

Elective III	S. No.	Code	Course Title
	1	SET/CS/BT/E821	Mobile Application Development
	2	SET/CS/BT/E822	Platform Technology
	3	SET/CS/BT/E823	Bioinformatics
	4	SET/CS/BT/E824	Natural Language Processing

Elective IV	S. No.	Code	Course Title
	1	SET/CS/BT/E831	Multimedia Technology
	2	SET/CS/BT/E832	Machine Learning
	3	SET/CS/BT/E833	Optical Network
	4	SET/CS/BT/E834	Big Data Analytics

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B.O.S. on 03/10/2018

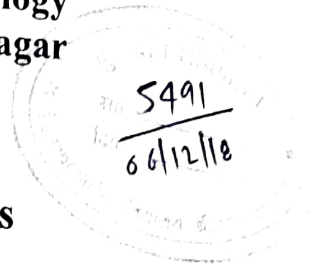
PROJECT - I (SET/CS/BT/S708)		
Module Name	Content	No. of Hrs.
	Project – I includes following assignments. <ul style="list-style-type: none">• Survey and study of published literature on the assigned topic.• Select and define an appropriate problem .• Working out a preliminary approach to the Problem relating to the assigned topic.• Conducting Preliminary Analysis/ Modeling/ Experiment/ Simulation/ Experiment/ Design/ Feasibility.• Preparing a Written Report on the Study conducted for presentation to the Department.• Final Seminar, as oral Presentation before a Departmental Committee.	3x16
Total No. of Hours		48

INDUSTRIAL TRAINING SEMINAR (SET/CS/BT/S709)		
Module Name	Content	No. of Hrs.
	Student shall prepare a detailed report on her/his industrial training and deliver a seminar of 30 minutes.	-
Total No. of Hours		-

Dr. [Signature] [Signature] [Signature] [Signature] 51 [Signature]



Department of Computer Science & Engineering
School of Engineering and Technology
H. N. B. Garhwal University, Srinagar



General Meeting of Board of Studies

VENUE : Department of Computer Science & Engineering, Chauras
Campus, H.N.B. Garhwal University, Srinagar.

DATE : 03rd October, 2018

TIME : 11:00 A.M.

AGENDA

Minutes of the Meeting of the Board of Studies

Meeting of the Board of Studies of Department of Computer Science & Engineering was held on 03.10.2018 at 11.00 A.M. in the office of Head, Department of Computer Science & Engineering, HNB Garhwal University, Srinagar (Garhwal).

The meeting was attended by the following:-

- | | |
|--|------------------------------------|
| 1. Prof. M.M.S. Rauthan
Head, Department of Computer Science & Engineering
HNB Garhwal University, Srinagar | Chairman |
| 2. Prof. D S. Negi, Head
Department of Mathematics,
HNB Garhwal University, Srinagar | Cognate Member |
| 3. Prof. S.C.Bhatt,
Department of Physics,
HNB Garhwal University, Srinagar | Cognate Member |
| 4. Dr. Y.P.Raiwani
Department of Computer Science & Engineering
HNB Garhwal University, Srinagar | Member |
| 5. Dr. M.P. Thapliyal
Associate Professor
Department of Computer Science & Engineering
HNB Garhwal University, Srinagar | Member
(Special Invitee) |
| 6. Dr. Narender Kumar
Assistant Professor
Department of Computer Science & Engineering
HNB Garhwal University, Srinagar | Member
(Special Invitee) |

The following members could not attend the meeting:-

- | | |
|---|---------------|
| 1. Prof. V.K. Sharma
Department of Computer Science
Gurukul Kangri University, Haridwar | Expert |
|---|---------------|

The Chairman welcome all the members of the Committee and items of the agenda were discussed one by one, by the committee

Resolution: All the members of the Committee were agreed for the modification made in the syllabi. The suggestions and modification by the members were incorporated in the syllabus

Resolution: All the members of the Committee were agreed for the changes made in the evaluation schemes of final semester of MCA, BCA, B.Sc. (IT), M.Sc. (IT), B.Sc.(CS) and M.Sc.(CS) as per following tables:

Subject Code	Subject	Instructional Hrs/Week			Marks			Credit
		L	T	P	ESA	CA	Sub Total	
Practical								
SET/CSE/MCA/PR61	Thesis/Project Work	-	3	18	60	40	100	15
Elective IX								
SET/CSE/MCA/E601	Seminar	-	-	-	60	40	100	3
SET/CSE/MCA/E602	Group Discussion							
Total		-	3	18	120	80	200	18

Sub. Total : Subject Total

S. No.	Course No.	Subject	Evaluation – Scheme								Credit
			Period			Sessional			Examination		
			L	T	P	TA	CT	TOT	ESE	Sub. Total	
Theory											
1.	SET/CSE/BCA/DSE4	DSE4A	4	1	-	10	20	30	70	100	5
2.	SET/CSE/BCA/DSE4	DSE5A	4	1	-	10	20	30	70	100	5
3.	SET/CSE/BCA/SEC4	SEC 4A	2	-	-	10	20	30	70	100	2
Practical											
1.	SET/CSE/BCA/EP61	DSE4A Lab	-	-	3	30	-	30	70	100	2
2.	SET/CSE/BCA/EP62	Project	2	2	6	30	-	30	70	100	6
Total			12	4	9	90	60	150	350	500	20

S.No	Course No.	Subject	Evaluation – Scheme								Credit
			Period			Sessional			Examination		
			L	T	P	TA	CT	TOT	ESE	Sub. Total	
Theory											
1.	SET/CSE/BIT/DSE4	DSE4A	4	1	-	10	20	30	70	100	5
2.	SET/CSE/BIT/DSE5	DSE5A	4	1	-	10	20	30	70	100	5
3.	SET/CSE/BIT/SEC4	SEC4A	2	-	-	10	20	30	70	100	2
Practical / Tutorial											
1.	SET/CSE/BIT/CP61	DSE4A Lab	-	-	3	30	-	30	70	100	2
2.	SET/CSE/BIT/CP62	Project	2	2	6	30	-	30	70	100	6
		Total	12	4	9	90	60	150	350	500	20
Total Credits			120								

M.Sc. (IT) IV Semester

S.No	Course No.	Subject	Evaluation – Scheme								Credit
			Period			Sessional			Examination		
			L	T	P	TA	CT	TOT	ESE	Sub. Total	
Theory											
1.	SET/CSE/MIT/E3										
2.	SET/CSE/MIT/E4	Elective III	3	-	-	10	30	40	60	100	
		Elective IV	3	-	-	10	30	40	60	100	3
Practical											
1.	SET/CSE/MIT/EP41	Elective III	-	-	3	10	30	40	60	100	3
2.	SET/CSE/MIT/PR41	Project	-	2	12	10	30	40	60	100	2
		Total	6	2	15	40	120	160	240	400	10
1.	SET/CSE/MIT/SS41	Self-Study	2	1	-	-	-	-	-	-	18
											3

B.Sc. (CS) VI Semester

S.No	Course No.	Subject	Evaluation – Scheme								Credit
			Period			Sessional			Examination		
			L	T	P	TA	CT	TOT	ESE	Sub. Total	
Theory											
1.	SET/CSE/BCS/DSE4	DSE4A	4	1	-	10	20	30	70	100	5
2.	SET/CSE/BCS/DSE5	DSE5A	4	1	-	10	20	30	70	100	5
3.	SET/CSE/BCS/SEC4	SEC4A	2	-	-	10	20	30	70	100	5
Practical / Tutorial											
1.	SET/CSE/BCS/CP61	DSE4A Lab	-	-	3	30	-	30	70	100	2
2.	SET/CSE/BCS/CP62	Project	2	2	6	30	-	30	70	100	2
		Total	12	4	9	90	60	150	350	500	20

M.Sc. (CS) IV Semester

S. No	Course No.	Subject	Evaluation – Scheme								Credit
			Period			Sessional			Examination		
			L	T	P	TA	CT	TOT	ESE	Sub. Total	
Theory											
1.	SET/CSE/MCS/E3	Elective III	3	-	-	10	30	40	60	100	3
2.	SET/CSE/MCS/E4	Elective IV	3	-	-	10	30	40	60	100	
Practical											
1.	SET/CSE/MCS/EP41	Elective III	-	-	3	40	-	40	60	100	2
2.	SET/CSE/MCS/PR41	Project	-	2	12	40	-	40	60	100	
		Total	6	2	15	100	60	160	240	400	10
1.	SET/CSE/MCS/SS41	Self-Study	2	1	-	-	-	-	-	-	18
Item no. 3: 4											3

Item no. 3: Approval of allotment of Supervisors for Research Scholar

Resolution: The research scholar of computer science and application session 2017-18 has qualified Pre-Ph.D. Examination. The Allotment of supervisors for Ph.D. program for them was done as per the following table:

S.No.	Name of the Research Scholar	Name of Supervisor
1.	Mr. Varun Barthwal	Prof. M. M. S. Rauthan
2.	Mr. Shailesh Singh Panwar	Dr. Y.P. Raiwani
3.	Ms. Khushbu Verma	Dr. Narendra Kumar Rawal

(Handwritten signatures and initials)

Item No. 4: *Discussion on leave application of Ms. Neelam Panwar (Research Scholar, Enrollment no. G151901, Registration no. ECS -16187, Registration Date 09.07.2015).*

Resolution: Ms. Neelam Panwar has completed minimum required period of 24 months in the campus after Pre-Ph.D. course. She is eligible to carry her research work off campus according to Ph.D. ordinance 2012 clause 9(A). So all the members of the Committee were agreed to accept her request for leave in anticipation of the approval of Hon'ble Vice- Chancellor.


Item No. 5: *Approval for Admission to MCA IInd year (Lateral Entry) against vacancies of first year from academic session 2019-20.*


Resolution: As per AICTE F.NO. AICTE/AB/NR/MCA-L.E./2016 dated 14.10.2016, all the members of the committee are agreed for MCA second year Lateral Entry with following conditions

"Provided that Students who have completed Bachelor's Degree of minimum 03 years duration in BCA, B.Sc. (Information Technology) B.Sc. (Computer Science) with Mathematics as a course at 10+2 level or at Graduate level shall be eligible for admission to second year MCA courses up to a maximum of 20% of sanctioned intake (30% for Institutions in Andaman, Nicobar, Lakshadweep, Daman and Diu) plus unfilled vacancies of 1st year which shall be over and above, supernumerary of the sanctioned intake."


Item No. 6: *Approval of entrance test syllabi of MCA 2 year (Lateral Entry) and 3 year - Programme, M.Tech and Ph.D. Entrance examination.*


Resolution: All the members of the Committee discussed the syllabi and approved the syllabi. of entrance test.


(Prof. M.M.S. Rauthan)
Chairman


(Prof. D.S. Negi)
Cognate Member


(Prof. S. C. Bhatt)
Cognate Member


(Dr. Y. P. Raiwani)
Member


(Dr. M. P. Thapliyal)
Member


(Dr. Narender Kumar)
Member

Hon'ble VC

may kindly approve the minutes of the BOS meeting.

Approved
17.12.2016
H.M. S. R.

For approval of
minutes.
6/12

Proceedings of the BoS of the Electronics and Communication Engineering

(Meeting held on 05-04-2018)

As per university notification No.: Acad./2018/71....., the Board of Studies (BoS) meeting was held in the office of the Head, Electronics and Communication Engineering Department at the Chauras campus of the university. Following members were present-

- | | |
|---|----------|
| 1. Prof. Y.Singh, ECE Dept.,GBPIET, Pauri Garhwal | Member |
| 2. Dr. P.K.Pal, ECE Dept.,NIT Srinagar Garhwal | Member |
| 3. Prof. S. C. Bhatt, Physics Dept., HNB Garhwal University | Member |
| 4.Prof.Y.S.Farswan,Dept. of History and Archaeology | Member |
| 5.Mr. A.S.Bahuguna, ECE Dept., HNB Garhwal University | Member |
| 6. Mr. Kuldip Kumar,ECE Dept., HNB Garhwal University | Convener |

The following agenda were discussed, elaborated and worked out and resolved as stated.

Agenda item No. 1. To identify the Experts for the Selection Committee(s) for the Electronics and Communication Engineering Department.

Resolution: The identified experts for Selection Committee(s) for the recruitment of Electronics and Communication Engineering Department teachers are listed in **Enclosure-1 (Envelop-1)**.

Agenda item No. 2. To list the names of paper setters/ practical examiners for the examinations of the courses of the department.

Resolution: The names of the paper setters/ practical examiners for the examination of the courses of the department are as listed in **Enclosure-2 (Envelop-2)**.

The bottom of the page features several handwritten signatures and initials in blue ink. From left to right, there is a small 'W' or 'V' mark, a circled 'G', a signature that appears to be 'P. K. Pal', a large signature that looks like 'Kuldip Kumar', and two other signatures on the right, one of which is 'S. C. Bhatt'.

Agenda item No. 3. To update the syllabus for B. Tech. (Electronics and Communication Engineering) course.

Resolution: Syllabus for B. Tech. (Electronics and Communication Engineering) course was discussed deliberately and Updated as **Enclosure-3**.

The meeting was concluded with vote of thanks to the chair.

The item wise resolutions are being recommended for the kind consideration and approval of the School Board/Academics Council.



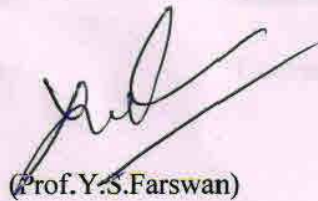
(Prof. Y. Singh)



(Prof. S.C. Bhatt)



(Dr. P.K. Pal)



(Prof. Y.S. Farswan)



(A.S. Bahuguna)



(Kuldip Kumar)

Curriculum and Syllabus

B. TECH.

Electronics and Communication Engineering

(Applicable for 2018-19 batch and onwards)



**Department of Electronics and Communication Engineering
School of Engineering and Technology,
H. N. B. Garhwal (Central) University,
Srinagar Garhwal, Uttarakhand- 246174**

Semester VI

S. No.	Code	Course Title	L	T	P	Contact Hrs./Week	Credits
1	SET/EC/BT/C601	Digital Signal Processing	3	1	-	4	3
2	SET/EC/BT/C602	Data Communication and Networking	3	1	-	4	3
3	SET/EC/BT/C603	Antenna and Wave Propagation	3	1	-	4	3
4	SET/EC/BT/C604	Telecommunication Switching	3	1	-	4	3
5		Program Elective-II	3	1	-	4	3
6	SET/EC/BT/C606	Digital Signal Processing Lab	-	-	2	2	1
7	SET/EC/BT/C607	Mini Project	-	-	2	2	1
8	SET/EC/BT/C608	Seminar	-	-	2	2	1
9	SET/SH/BT/A609	* Biology	3	1		4	3
Total			18	6	6	30	21

*Applied Sciences and Humanities courses

List of Program Elective:

S.No.	Code	Course Title
1	SET/EC/BT/E611	CMOS Analog IC Design
2	SET/EC/BT/E612	Information Theory and Coding
3	SET/EC/BT/E613	Bio-medical Electronics

Semester VII

S. No.	Code	Course Title	L	T	P	Contact Hrs./Week	Credits
1	SET/EC/BT/C701	Advance Communication Systems	3	1	-	4	3
2		Program Elective-III	3	1	-	4	3
3		Program Elective-IV	3	1	-	4	3
4		#OE-I	3	1	-	4	3
5	SET/EC/BT/C705	Advance Communication Lab.	-	-	2	2	1
6	SET/EC/BT/C706	Industrial Training Seminar	-	-	2	2	1
7	SET/EC/BT/C707	Project Stage-I	-	-	6	6	3
8	SET/HS/BT/H710	*Principles of Management	3	1	-	4	3
Total			15	5	10	30	20

* Humanities and Social Sciences including Management courses.

#OE: Courses offered by any other department of School of Engineering and Technology

List of Program Elective:

S.No.	Code	Course Title
1.	SET/EC/BT/E711	Fiber Optic Communication
2.	SET/EC/BT/E712	Embedded Systems
3.	SET/EC/BT/E713	Adaptive Signal Processing
4	SET/EC/BT/E714	Wireless Sensor Networks
5	SET/EC/BT/E715	High Speed Electronics
6	SET/EC/BT/E716	Error Correcting Codes

भारत संचार निगम लिमिटेड
BHARAT SANCHAR NIGAM LIMITED
(भारत सरकार का उपक्रम)
(A Govt. of India Enterprise)



कार्यालय (Office)
ऑपरेशन हेड दूरसंचार, श्रीनगर गढ़वाल
उत्तराखण्ड - 246174
Operation Head Telecom
Srinagar Garhwal
(Uttarakhand) - 246174

पंजीकीण संख्या (Regd. No):- VT/20

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

Certified that Sk./Smt/Ka ABHISHEK GHILDEYAL student
of H.N.B Garhwal (A Central) University Srinagar Garhwal Uttarakhand Pursuing
B.Tech. [E&CE] IV Sem: Year/Semester has successfully completed Vocational
Training of 04 Weeks, in Basic Telecom with effect from 15-06-2022 To 13-07-2022 at
Srinagar (gwl) SSA BSNL. His/Her Performance during the training has been Excellent.
Bharat Sanchar Nigam Limited wishes for their bright future.

Connecting India

Place : Srinagar Gwl

Dated :

Prepared / Checked By :-

Kum Naga

Assistant General Manager

Srinagar (Gwl.)

कार्यालय प्रबन्धक दूर संचार जिला
श्रीनगर (गढ़वाल) 246174

भारत संचार निगम लिमिटेड
BHARAT SANCHAR NIGAM LIMITED
(भारत सरकार का उपक्रम)
(A Govt. of India Enterprise)



कार्यालय (Office)
ऑपरेशन हेड दूरसंचार, श्रीनगर गढ़वाल
उत्तराखण्ड - 246174
Operation Head Telecom
Srinagar Garhwal
(Uttarakhand) - 246174

पंजीकीण संख्या (Regd. No):- VT/2022-23/03

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

Certified that Sh./Smt/KuKM..DIVYA..RATURI.....student
of..H.N.B. Garhwal (A Central) University, Srinagar, Uttarakhand, 246174...Pursuing
....B.Tech. [E & CE].....VI. Sem.....Year/Semester has successfully completed Vocational
Training of 04.....Weeks, in Basic Telecom with effect from 13-06-2022 To 11-07-2022...at
Srinagar (gwl) SSA BSNL. His/Her Performance during the training has been....Excellent.....
Bharat Sanchar Nigam Limited wishes for their bright future.

Connecting India

Place : Srinagar Gwl

Dated : 12th July 2022

Prepared / Checked By :-

Kiran Negi

Assistant General Manager
Srinagar (Gwl)

उपसंचालक (सहायक)
श्रीनगर (गढ़वाल) 246174

पंजीकीण संख्या (Regd. No):- VT/2021-22/08

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM


Certified that **Sh./Smt/Ku** **HIMANSHI GAUTAM** **student**
of **H.N.B. Garhwal C.A. Central University, Srinagar (Gwal), Uttarakhand** **Pursuing**
..... **B.Tech: [E.E.C.E.]** **VII. Sem** **Year/Semester has successfully completed Vocational**
Training of 04 Weeks, in Basic Telecom with effect from 15-06-2022 To 13-07-2022 at
Srinagar (gwl) SSA BSNL. His/Her Performance during the training has been **Excellent**

Bharat Sanchar Nigam Limited wishes for their bright future.

Place : Srinagar Gwl

Dated :

Prepared / Checked By :- 


Assistant General Manager
Srinagar (Gwal) 246174

प्रमाण पत्र / CERTIFICATE

प्रमाणित किया जाता है कि श्री/सुश्री प्रफुल्ल कुमार सुपुत्र/सुपुत्री श्री मदन कुमार
जो कि स्व. एन. बी. जी. शर्मा श्री नगर गढ़वाल में ई. सी. ई.
के छात्र/छात्रा हैं, ने इस संस्था के विभिन्न विभागों में 27-06-2022 से 18-07-2022 तक
का अपना अवैतनिक प्रशिक्षण पूरा कर लिया है।

प्रशिक्षण के दौरान इनकी अवैतनिक प्रशिक्षणार्थी संख्या 7551/22 थी। वह एक निष्ठावान, अनुशासित एवं
मेहनती विद्यार्थी है और प्रशिक्षण के दौरान इनका निष्पादन उत्कृष्ट रहा।

This is to certify that Mr./Ms. Prafull Kumar S/O D/O Sh. Madan Kumar
who is a student of H.N.B.G.U. Srinagar Garhwal in E.C.E.
has undergone Unpaid Training in the various departments of this organization
from 27-06-2022 to 18-07-2022 for period of —

During Training he/she was allotted Unpaid Trainee No. 7551/22 He/She
is Honest, Obedient and Hard working student and his/ her Performance during Training
was Excellent

दिनांक :

Date : 18-07-2022


कृते भारत इलेक्ट्रॉनिक्स लिमिटेड
For Bharat Electronics Limited
व. सहायक अभियंता (मा.स.वि.)
Sr Asst. Engineer (HRD)
भारत इलेक्ट्रॉनिक्स लिमिटेड, पंचकुला
Bharat Electronics Ltd, Panchkula

प्रमाण पत्र / CERTIFICATE

प्रमाणित किया जाता है कि श्री/शुद्धी रतन कुमार जैन पुत्र/पुत्री श्री पवन कुमार जैन
जो कि एच. एन. बी. जी. यूनि. श्री नगर गढ़वाल में ई. सी. ई.
के छात्र/छात्रा हैं, ने इस संस्था के विभिन्न विभागों में 13-06-2022 से 12-07-2022 तक
का अपना अवैतनिक प्रशिक्षण पूरा कर लिया है।

प्रशिक्षण के दौरान इनकी अवैतनिक प्रशिक्षणाधी संख्या 7547/22 थी। वह एक निष्ठावान, अनुसन्धित एवं
मेहनती विद्यार्थी है और प्रशिक्षण के दौरान इनका निष्पादन उत्कृष्ट रहा।

This is to certify that Mr./Ms. Rattan Kumar Jain s/o D/o Sh. Pawan Kumar Jain
who is a student of H.N.B.G.U. Srinagar Garhwal E.C.E.
has undergone Unpaid Training in the various departments of this organization
from 13-06-2022 to 12-07-2022 for period of —

During Training he/she was allotted Unpaid Trainee No. 7547/22 He/She
is Honest, Obedient and Hard working student and his/ her Performance during Training
was Excellent

दिनांक :

Date : 12-07-2022


कृते भारत इलेक्ट्रॉनिक्स लिमिटेड
For Bharat Electronics Limited
राम कुमार सैनी / Ram Kumar Saini
व. सहायक अभियंता (म.स.वि.)
Sr. Asst. Engineer (HRD)
भारत इलेक्ट्रॉनिक्स लिमिटेड, पंचकूला
Bharat Electronics Ltd. Panchkula

ओ एन जी सी



ongc

OIL AND NATURAL GAS CORPORATION LTD

CBM ASSET

1st Floor HSCL Building, Near Naya More, Bokaro, (Jharkhand) - 827001

This is to certify that Mr./Mrs. *Kumar* a student of

..... *H.N.B. Garhwal University*

has undergone Summer / Winter / Industrial Training at ONGC from *04.07.2022 to 03.08.2022*

He/She has successfully complete his/her Project Work on .. *Network* *Design* *Routing*

..... *Security* in discipline of *Electronics & Communication* *Engg* during

the Training, he/she took keen interest in the assigned work. We wish him/her all success in his / her academic endeavours and life.

Date : *08.09.2022*

Place : Bokaro

[Signature]
08.09.2022
In-charge HR/ER
ONGC CBM Asset

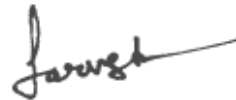
Certificate of Training

Abhishek Kumar

from Hemwati Nandan Bahuguna Garhwal University (a central University) has successfully completed a 6-week online training on **VLSI Design**. The training consisted of Introduction to VLSI, HDL Coding Concepts, Combinational Circuits, Sequential Circuit Design, Finite State Machines, System Design using FPGA, and Case Studies & Final Project modules.

In the final assessment, Abhishek scored 84% marks.

We wish Abhishek all the best for future endeavours.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-07-16

Certificate no. : 91878044-7009-D640-B331-E92618EB7424

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



CERTIFICATE OF COMPLETION

This internship certificate for brilliant and consistent high standards of workmanship signed this day by the duly authorized officers is proudly presented to

MR/MS. ABHISHEK PANDEY

For the successful completion of internship

EMBEDDED

under Pie Infocomm Private Limited from **20th JUNE 2022** to **5th AUGUST 2022**. It lead to the

Completion of Project titled as **“FINGERPRINT DOOR UNLOCK SYSTEM”**



Vijay Kumar Jaiswal

भारत संचार निगम लिमिटेड

BHARAT SANCHAR NIGAM LIMITED

(भारत सरकार का उपक्रम)

(A Govt. of India Enterprise)



कार्यालय (Office)

ऑपरेशन हेड दूरसंचार, श्रीनगर गढ़वाल

उत्तराखण्ड - 246174

Operation Head Telecom

Srinagar Garhwal

(Uttarakhand) - 246174

पंजीकीण संख्या (Regd. No):- VT/2021-22/08

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

Certified that Sh. / Smt. Ku

ANAN. RUPAIN

Student

of H.N.B. Garhwal U.A. Central University, Srinagar Garhwal, Uttarakhand Pursuing
.....B.Tech. [E.C.E.]IVSemYear Semester has successfully completed Vocational
Training of 04 Weeks, in Basic Telecom with effect from 15-06-2022 To 13-07-2022 at
Srinagar (gul) SSA BSNL. His/Her Performance during the training has been Excellent.....
Bharat Sanchar Nigam Limited wishes for their bright future.

Place : Srinagar Gwl

Dated :

Prepared / Checked By :-

Shri. Nishi

Assistant General Manager

Srinagar Gwl.)

श्रीनगर (गढ़वाल) 246174



NATIONAL INSTITUTE OF ELECTRONICS & INFORMATION TECHNOLOGY

(Ministry of Electronics & Information Technology, Government of India)

An ISO 9001:2015 Certified Organization

HARIDWAR CENTRE

CERTIFICATE

This is to certify that

Mr. Amgoth Balaji

S/o Mr. Lingya Nayak

*has successfully completed 6 weeks (60 hours) Summer Training
programme on*

Internet of Things (IoT) using Arduino

conducted by this Centre in online mode

from 29/06/2022 to 16/08/2022.

Signature valid

Digitally signed by SANYAM
RATHOR
Date: 2022.08.24 15:05:59
IST

Signature valid

Digitally signed by
ANURAG KUMAR
Date: 2022.08.25 11:36:47
IST

Joint Director (Tech)

Director-in-charge

e-Certificate No : HDO03173

भारत संचार निगम लिमिटेड
BHARAT SANCHAR NIGAM LIMITED
(भारत सरकार का उपक्रम)
(A Govt. of India Enterprise)



कार्यालय (Office)
ऑपरेशन हेड दूरसंचार, श्रीनगर गढ़वाल
उत्तराखण्ड - 246174
Operation Head Telecom
Srinagar Garhwal
(Uttarakhand) - 246174

पंजीकीण संख्या (Regd. No):- VT/2021/22/

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

Certified that Sh./Smt/Ku AMIT KUMAR student
of... H.N.B. Garhwal (A Central) University... Srinagar Garhwal UKD Pursuing
... B.Tech. [E.C.E.] VIth Sem.... Year/Semester has successfully completed Vocational
Training of 04.... Weeks, in Basic Telecom with effect from... 30-08-2022... To... 27-09-2022 at
Srinagar (gul) SSA BSNL. His/Her Performance during the training has been..... Excellent....
Bharat Sanchar Nigam Limited wishes for their bright future.

Place : Srinagar Gwl

Dated : 30/09/2022

Prepared / Checked By :

Assistant General Manager
Srinagar (Gwl)
कार्यालय प्रबन्धक दूर संचार जिला
श्रीनगर (गढ़वाल) 246174



यूजेवीएन लिमिटेड

(उत्तराखण्ड सरकार का उपक्रम)

UJVN LIMITED

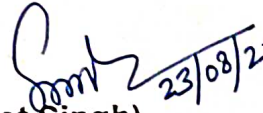
(A Government of Uttarakhand Enterprise)

कार्यालय, उच्चिष्ठ, अमिपन्ना, अनुसन्धान एवं उत्पादन, धकरानी, देहरादून-248147 दूरभाष स० 01360258263, फेक्स- 01360258706
Office of the Executive Engineer, Maintenance & Generation, Dhakrani, Dehradun-248147, Phone 01360258263 and Fax- 01360258706
CIN No.U40101UR2001SGC025866
ISO 9001,14001 Certified

TO WHOM IT MAY CONCERN

Certified that Mr. Ayush Badoni, (Electronics. Engi.) Student of B.Tech, School of Engineering & technology, Srinagar has completed his Summer training at Dhakrani Power Station under Executive Engineer (Maintenance & Generation), Dhakrani from 27.06.2022 to 24.07.2022. During above period his conduct was found very good.

We wish him all success in his life.


(Sukhjeet Singh) 23/08/2022
Executive Engineer
EXECUTIVE ENGINEER
MAINTENANCE & GENERATION
UJVN LIMITED
DHAKRANI POWER STATION
DHAKRANI (DEHRADUN)

भारत संचार निगम लिमिटेड
BHARAT SANCHAR NIGAM LIMITED
(भारत सरकार का उपक्रम)
(A Govt. of India Enterprise)



कार्यालय (Office)
ऑपरेशन हेड दूरसंचार, श्रीनगर गढ़वाल
उत्तराखण्ड - 246174
Operation Head Telecom
Srinagar Garhwal
(Uttarakhand) - 246174

पंजीकीण संख्या (Regd. No):- VT/2021-22/13

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

Certified that Sk./Smt/Ku DEEPAK SINGH MAURYA student
of H.N.B. Garhwal [A Central] University, Srinagar Garhwal, Uttarakhand, Pursuing
B.Tech. [E.E.E.E.] VI Sem. Year/Semester has successfully completed Vocational
Training of 04 Weeks, in Basic Telecom with effect from 20-06-2022 To 18-07-2022 at
Srinagar (gwl) SSA BSNL. His/Her Performance during the training has been Excellent
Bharat Sanchar Nigam Limited wishes for their bright future.

Place : Srinagar Gwl

Dated : 19-07-2022

Prepared / Checked By :-

[Signature]

Assistant General Manager

Srinagar Garhwal (Gwl)

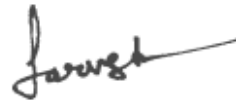
कार्यालय प्रबन्धक दूर संचार निगम
श्रीनगर (गढ़वाल) 246174

Certificate of Training

Govind Chauhan

from Hemvati Nandan Bahuguna Garhwal University (Central University), Srinagar Uttarakhand has successfully completed a 6-week online training on **VLSI Design**. The training consisted of Introduction to VLSI, HDL Coding Concepts, Combinational Circuits, Sequential Circuit Design, Finite State Machines, System Design using FPGA, and Case Studies & Final Project modules.

We wish Govind all the best for future endeavours.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-07-16

Certificate no. : 059EC2FC-EDC3-15A3-45F4-225527F8D075

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

प्रमाण पत्र / CERTIFICATE

प्रमाणित किया जाता है कि श्री/सुश्री हर्षल दिनदयाल बोरकर सुपुत्र/सुपुत्री श्री दिनदयाल बोरकर
जो कि एच. एन. बी. जी. यूनि. श्री नगर गढ़वाल में ई. सी. ई.
के छात्र/छात्रा हैं, ने इस संस्था के विभिन्न विभागों में 13-06-2022 से 12-07-2022 तक
..... का अपना अवैतनिक प्रशिक्षण पूरा कर लिया है।

प्रशिक्षण के दौरान इनकी अवैतनिक प्रशिक्षणार्थी संख्या 7546/22 थी। वह एक निष्ठावान, अनुशासित एवं
मेहनती विद्यार्थी है और प्रशिक्षण के दौरान इनका निष्पादन उत्कृष्ट रहा।

This is to certify that Mr./Ms. Harshal Dindayal S/O D/O Sh. Dindayal Borkar
who is a student of H.N.B.G.U.-Sri Nagar Garhwal in ECE
has undergone Unpaid Training in the various departments of this organization
from 13-06-2022 to 12-07-2022 for period of

During Training he/she was allotted Unpaid Trainee No. 7546/22 He/She
is Honest, Obedient and Hard working student and his/ her Performance during Training
was Excellent

दिनांक :

Date : 12-07-2022


कृते भारत इलेक्ट्रॉनिक्स लिमिटेड
For Bharat Electronics Limited
राम कुमार सेनी / Ram Kumar Saini
व सहायक अभियंता (मा.स.वि)
Sr Asst. Engineer (HRD)
भारत इलेक्ट्रॉनिक्स लिमिटेड, पंचकुला
Bharat Electronics Ltd, Panchkula



University of Colorado
Boulder

26 Dec, 2022

HIRAN KUMAR BAMMIDI

has successfully completed

Embedded Software and Hardware Architecture

an online non-credit course authorized by University of Colorado Boulder and offered
through Coursera

A blue ink signature of Alex Fosdick.

Alex Fosdick
Instructor
Electrical, Computer, and Energy Engineering

COURSE
CERTIFICATE



Verify at:

<https://coursera.org/verify/TNK5UNVUMGQE>

Coursera has confirmed the identity of this individual and their
participation in the course.

भारत संचार निगम लिमिटेड
BHARAT SANCHAR NIGAM LIMITED
(भारत सरकार का उपक्रम)
(A Govt. of India Enterprise)



कार्यालय (Office)
ऑपरेशन हेड दूरसंचार, श्रीनगर गढ़वाल,
उत्तराखण्ड - 246174
Operation Head Telecom
Srinagar Garhwal
(Uttarakhand) - 246174

पंजीकीण संख्या (Regd. No):- VT/2021-22

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

Certified that Sh./Smt./Ku KANCHAN..RANA.....student
of H.N.B. Garhwal [A Central] University..Srinagar..Garhwal..Uttarakhand...Pursuing
B.Tech. [E & C E].....IV..Sem.....Year/Semester has successfully completed Vocational
Training of 04...Weeks, in Basic Telecom with effect from 20-06-2022..To..18-07-2022..at
Srinagar (gwl) SSA BSNL. His/Her Performance during the training has been.....Excellent.....
Bharat Sanchar Nigam Limited wishes for their bright future.

Place : Srinagar Gwl

Dated : 22-07-2022

Prepared / Checked By :-

Kiran Negi

Assistant General Manager
Srinagar (Gwl)

कार्यालय प्रबन्धक दूर संचार जिला
श्रीनगर (गढ़वाल) 246174

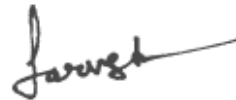
Certificate of Training

Munna Kumar

from Hemvati Nandan Bahuguna Garhwal (Central) University has successfully completed a 6-week online training on **VLSI Design**. The training consisted of Introduction to VLSI, HDL Coding Concepts, Combinational Circuits, Sequential Circuit Design, Finite State Machines, System Design using FPGA, and Case Studies & Final Project modules.

In the final assessment, Munna scored 86% marks.

We wish Munna all the best for future endeavours.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-07-30

Certificate no. : D1D3381B-6A97-83D6-4B49-594C321FD6DF

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

भारत संचार निगम लिमिटेड
BHARAT SANCHAR NIGAM LIMITED
(भारत सरकार का उपक्रम)
(A Govt. of India Enterprise)



कार्यालय (Office)
ऑपरेशन हेड दूरसंचार, श्रीनगर गढ़वाल
उत्तराखण्ड - 246174
Operation Head Telecom
Srinagar Garhwal
(Uttarakhand) - 246174

पंजीकीण संख्या (Regd. No):- VT/2021-22/18

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

Certified that Sh./Smt./Ku PRADHUMAN NATH RAWAL student
of H.N.B. Garhwal [A Central] University Srinagar Garhwal Uttarakhand Pursuing
B.Tech [E & CE] VI. Sem. Year/Semester has successfully completed Vocational
Training of 04 Weeks, in Basic Telecom with effect from 20-06-2022 To 18-07-2022 at
Srinagar (gwl) SSA BSNL. His/Her Performance during the training has been Excellent.....
Bharat Sanchar Nigam Limited wishes for their bright future.

Place : Srinagar Gwl
Dated : 22-07-2022
Prepared / Checked By :-

Kiran Negi

Assistant General Manager
Srinagar (Gwl)

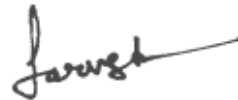
अध्यक्ष प्रबन्धक दूर संचार निगम
श्रीनगर (गढ़वाल) 246174

Certificate of Training

Pratham Verma

from Hemvati Nandan Bahuguna Garhwal University, Srinagar(Garhwal), Uttarakhand-246174 has successfully completed a 6-week online training on **MATLAB**. The training consisted of Introduction, Foundations, Mathematics, Functions, Plotting, Programming, Case Studies, and Final Project modules.

We wish Pratham all the best for future endeavours.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal
FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-09-23 Certificate no. : DA09EADC-ABDB-025B-CB8E-1DD61902FAEE

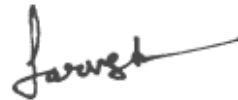
For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

Prerna Negi

from Hemvati Nandan Bahuguna Garhwal University has successfully completed a 6-week online training on **Arduino**. The training consisted of Introduction, Basics of Arduino programming, Basics of Electronics, Interfacing basic IO Devices, Mini Projects, Case Studies, and Final Project modules.

We wish Prerna all the best for future endeavours.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal
FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-08-07 Certificate no. : 4BF5CD3D-F538-A4A3-6A45-65CB791BB55E

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

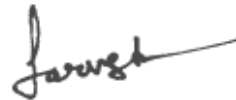
Certificate of Training

Raghvender Singh

from Hemvati nandan bahuguna garhwal (central) university, Srinagar, garhwal uttarakhand has successfully completed a 6-week online training on **VLSI Design**. The training consisted of Introduction to VLSI, HDL Coding Concepts, Combinational Circuits, Sequential Circuit Design, Finite State Machines, System Design using FPGA, and Case Studies & Final Project modules.

Raghvender is a top performer in the training.

We wish Raghvender all the best for future endeavours.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-07-18

Certificate no. : 7A29C1BA-04AE-29CD-B380-99E70EE7E0F6

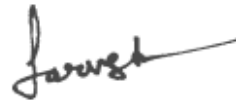
For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

Rajkumar Jataboina

from Hemvati Nandan Bahuguna Garhwal University (Central University), Srinagar Uttarakhand has successfully completed a 6-week online training on **VLSI Design**. The training consisted of Introduction to VLSI, HDL Coding Concepts, Combinational Circuits, Sequential Circuit Design, Finite State Machines, System Design using FPGA, and Case Studies & Final Project modules.

We wish Govind all the best for future endeavours.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-07-16

Certificate no. : 059EC2FC-EDC3-15A3-45F4-225527F8D075

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



Certificate Number
ALTSWWB223-2022-663013



ADVANCED LEVEL TELECOM TRAINING CENTRE (ALTTC), GHAZIABAD
(UNO'S ITU CENTRE OF EXCELLENCE)

APEX TRAINING INSTITUTE OF BSNL(A GOVT. OF INDIA ENTERPRISE)

A Joint Venture Of International Telecommunication Union, Geneva, UNDP And The Government Of India In 1975

CERTIFICATE

This is to Certify that Mr./Ms.

SACHIN GUPTA

STUDENT

from School of Engineering and technology, HNB Garhwal University, Srinagar ,Garhwal,

has successfully completed the following Course conducted by
Bharat Sanchar Nigam Limited

Name of the Course: ONLINE INDUSTRIAL TRAINING IN TELECOM TECHNOLOGY & Networks (4 WEEKS)

with effect from **13.06.22** TO **08.07.22**

at **ALTTC, Ghaziabad**

We wish him/her all the best for a bright future.

08.07.22

DATE

Dy. General Manager (CFA & BB)
(ALTTC)

भारत संचार निगम लिमिटेड
BHARAT SANCHAR NIGAM LIMITED
(भारत सरकार का उपक्रम)
(A Govt. of India Enterprise)



कार्यालय (Office)
ऑपरेशन हेड पुरस्कार, श्रीनगर गढ़वाल
उत्तराखण्ड - 246174
Operation Head Telecom
Srinagar Garhwal
(Uttarakhand) - 246174

पंजीकीण संख्या (Regd. No.): VT/2021-22/08

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

Certified that Sk./Smt/Ka SANDEEP SINGH student
of H.N.B. Garhwal (A. Central) University Srinagar Garhwal Uttarakhand Pursuing
B.Tech. [E.P.C.E.] VI. Sem. Year/Semester has successfully completed Vocational
Training of 04 Weeks in Basic Telecom with effect from 15-06-2022 To 13-07-2022 at
Srinagar (Gwl) SSA BSNL. His/Her Performance during the training has been Excellent.....
Bharat Sanchar Nigam Limited wishes for their bright future.

Place : Srinagar Gwl

Dated :

Prepared / Checked By :-

[Signature]

[Signature]
Assistant General Manager
Srinagar (Gwl)

कार्यालय (Office)
ऑपरेशन हेड पुरस्कार, श्रीनगर गढ़वाल
उत्तराखण्ड - 246174



Business Club
IIT KHARAGPUR

CERTIFICATE

OF COMPLETION

This certificate is proudly presented to

Satyam Kumar Mishra

in acknowledgment of participation in the

Internet Of Things Course

with **Technophilia Summer Training** in association with **B-Club IIT Kharagpur**
successfully completed during **May & June 2022**

A handwritten signature in black ink.

Mr. Mayank Arora
Program Coordinator
Technophilia Solutions

Certificate Number

TP-ST-1933

A handwritten signature in black ink.

Mrs. Shilpa Mehta
Chief Executive Officer
Technophilia Solutions

CERTIFICATE OF COMPLETION

5G Core - Architectures, Concepts and Call Flows

Instructors **Suryabh S**

Shagun Dobhal

Date: **Oct. 5, 2022**

Duration: **6 Weeks**

This certificate verifies that **Shagun Dobhal** from Hemvati Nandan Bahuguna Garhwal University, Srinagar (Garhwal), Uttarakhand successfully completed the course **5G Core - Architectures, Concepts and Call Flows** on **05/10/2022** as taught by **Suryabh S** on Udemy. The certificate indicates the entire course was completed as validated by the student.

भारत संचार निगम लिमिटेड
BHARAT SANCHAR NIGAM LIMITED
(भारत सरकार का उपक्रम)
(A Govt. of India Enterprise)



कार्यालय (Office)
ऑपरेशन हेड दूरसंचार, श्रीनगर गढ़वाल
उत्तराखण्ड - 246174
Operation Head Telecom
Srinagar Garhwal
(Uttarakhand) - 246174

पंजीकीण संख्या (Regd. No):- VT/2022-23 /

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

Certified that **Sh. Smt/Ku** **SHIVANI JOSHI** **student**

of **H.N.B. Garhwal J.A. Central University, Srinagar Garhwal, Uttarakhand**. Pursuing
B.TECH. C.F. & CE **VI Sem.** **Year/Semester** has successfully completed Vocational
Training of **04** Weeks, in Basic Telecom with effect from **13-06-2022** To **11-07-2022** at
Srinagar (gul) SSA BSML. His/Her Performance during the training has been **Excellent**.....
Bharat Sanchar Nigam Limited wishes for their bright future.

Place : Srinagar Gwl
Dated : 15/07/2022
Prepared / Checked By :-

[Signature]

Assistant General Manager
Srinagar (Gwl)

रतन प्रदीप (संचार) 246174
संचार निगम लिमिटेड
श्रीनगर गढ़वाल - 246174

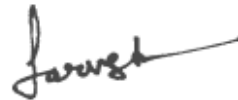
Certificate of Training

Subodh Saklani

from Hemvati Nandan Bahuguna Garhwal University has successfully completed a 6-week online training on **Embedded Systems**. The training consisted of Introduction, Embedded Hardware, Embedded Firmware, Firmware Development, Phases of Embedded Systems Development, Case Studies, and Final Project modules.

In the final assessment, Subodh scored 62% marks.

We wish Subodh all the best for future endeavours.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-10-18

Certificate no. : B6F4E429-61C8-4FFD-DC2C-1CA2D63B2A20

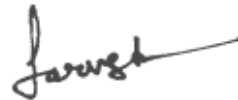
For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

Udit Uniyal

from Hemvati Nandan Bahuguna Garhwal University has successfully completed a 6-week online training on **Embedded Systems**. The training consisted of Introduction, Embedded Hardware, Embedded Firmware, Firmware Development, Phases of Embedded Systems Development, Case Studies, and Final Project modules.

We wish Udit all the best for future endeavours.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal
FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-07-04

Certificate no. : DB485027-D85E-0659-745F-7E9F3AFCC89E

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



Virtual Door IT Services LLP

We convert difficulties into opportunities

D-318, OMICRON-3, GREATER NOIDA, GBN, U. P. 201306

Phone: - +91 8750605888 | GSTIN 09AAPFV2095M1ZA

Email: interact@virtualdoor.in | Web: www.virtualdoor.in

TO WHOMSOEVER IT MAY CONCERN

Date: 30-July-2022

This document is to certify that **Vaibhav Naithani** has completed his internship **Virtual Door IT Services LLP** at **Noida U.P.**, from **15th JUNE 2022 to 26th JULY 2022**.

He has worked on the project titled PIE (Prediction Insights Engine). The aim of this project was to perform a trend analysis & identify anomalous behavior. As a part of the project, he has

- performed data wrangling
- training & developing models

During the internship, Mr. Vaibhav Naithani has demonstrated a keen interest and enthusiasm to learn new skills. His performance exceeded our expectations and his dedication to their role and responsibilities was commendable. All of the tasks were completed on time and to the best of his abilities.

We wish him all the best for his career.

Date: 30-July-2022

Place: Noida

For Virtual Door IT Services LLP



भारत संचार निगम लिमिटेड
BHARAT SANCHAR NIGAM LIMITED
(भारत सरकार का उपक्रम)
(A Govt. of India Enterprise)



कार्यालय (Office)
ऑपरेशन हेड दूरसंचार, श्रीनगर गढ़वाल
उत्तराखण्ड - 246174
Operation Head Telecom
Srinagar Garhwal
(Uttarakhand) - 246174

पंजीकीण संख्या (Regd. No):- VT/2021-22/08

CERTIFICATE OF BASIC LEVEL VOCATIONAL TRAINING IN TELECOM

Certified that Sh./Smt/Mr ANOOP KUMAR MISHRA student
of ... H.N.B. Garhwal (A Central) University ... Srinagar Garhwal ... Uttarakhand Pursuing
... B.Tech [E & CE] ... VI ... Sem. Year/Semester has successfully completed Vocational
Training of 04 Weeks, in Basic Telecom with effect from 15-06-2022 To 13-07-2022 at
Srinagar (Gwl) SSA BSNL. His/Her Performance during the training has been Excellent.....
Bharat Sanchar Nigam Limited wishes for their bright future.

Place : Srinagar Gwl

Dated :

Prepared / Checked By :-

K. Nigam

Assistant General Manager
Srinagar (Gwl)

कार्यालय प्रबन्धक दूर संचार जिला
श्रीनगर (गढ़वाल) 246174

Proceedings of the BoS of the Instrumentation Engineering-USIC
(Meeting held on 05-04-2018)

As per university notification No.: Academic/2018/72, dated 02-04-2018, the Board of Studies (BoS) meeting was held in the office of the Head, **Instrumentation Engineering-USIC** at the Chauras campus of the university. Following members were present-

- | | |
|--|-----------|
| 1. Dr. M. K. Panda, Electrical Engg. Dept.,
G B Pant Institute of Engineering and Technology, Pauri | -Member |
| 2. Prof. S. C. Bhatt, Physics Dept., HNB Garhwal University | -Member |
| 3. Prof. M. M. S. Rauthan, CSE Dept., HNB Garhwal University | -Member |
| 4. Mr. Vishal Rohilla, Asst. Professor, Instrumentation Engg.-USIC | -Member |
| 5. Prof. N.S. Panwar, Head, Instrumentation Engg.-USIC | -Convener |

The following agenda were discussed, elaborated and worked out and resolved as stated.

Agenda item No. 1. Confirmation of the Minutes of the previous BoS meeting, held on 30-01-2016.

Resolution: Minutes of the BoS meeting, held on 30-01-2016 were confirmed.

Agenda item No. 2. Change of the name of the course at B. Tech. level from **Instrumentation Engineering** course to **Electrical and Instrumentation Engineering (EIE)**.

Resolution: To make the Instrumentation Engineering course more popular and attractive to the students seeking admission in the Engineering courses, it is decided that the name of the **Instrumentation Engineering** course at B. Tech. level be changed to **Electrical and Instrumentation Engineering (EIE)**. This new nomenclature is also consistent with the nomenclature(s) recognized by the AICTE. Syllabus of the **Electrical and Instrumentation Engineering (EIE)** course is designed accordingly.

Agenda item No. 3. To identify the **Experts for the Selection Committee(s)** for the Instrumentation Engineering (IE) Department- USIC.

Resolution: The identified experts for Selection Committee(s) for the recruitment of teachers in the Instrumentation Engineering (IE) Department and University Science Instrumentation Centre (USIC) are listed in **Enclosure-1 (Envelop-1)**.

Agenda item No. 4. To list the names of paper setters/ practical examiners for the examinations of the courses of the department.



Resolution: The names of the paper setters/ practical examiners for the examination of the courses of the department are as listed in **Enclosure-2 (Envelop-2)**.

Agenda item No. 5. To frame the Entrance Test syllabus for Lateral entry in B. Tech. Courses.

Resolution: The syllabi have been made according to the diploma, and B.Sc. (Maths, Physics) standard for Lateral entry in B. Tech. Courses. The syllabi are designed and enclosed as **Enclosure-3(i) and 3(ii)** respectively.

Agenda item No. 6. To design the syllabus for B. Tech. (Electrical and Instrumentation Engineering) course.


Resolution: Syllabus for B. Tech. (Electrical and Instrumentation Engineering) course was discussed deliberately and designed as **Enclosure-4**.

The meeting was concluded with vote of thanks to the convener.

The item wise resolutions are being recommended for the kind consideration and approval of the School Board/Academics Council.

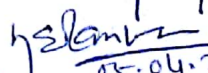

Dr. M. K. Panda

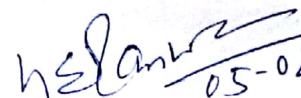

Mr. Vishal Rohilla


Prof. S. C. Bhatt


Prof. M. M. S. Rauthan

Hon'ble Vice-chancellor
may kindly approve.


05.04.2018
except item No. 2
rest of the agenda &
minutes approved
11.4.2018
Hon'ble


05-04-2018
Prof. N.S. Panwar
(Convener)

Agenda No. 2 may be
discussed. need deliberation.
All other agenda & resolution
may be approved.
14/4

P. T. D.

Semester VI

S. No.	Code	Course Title	L	T	P	Contact Hrs./Week	Credits
1	SET/EC/BT/C601	Digital Signal Processing	3	1	-	4	3
2	SET/EI/BT/C602	PLC and Automation	3	1	-	4	3
3	SET/EI/BT/C603	Process Control	3	1	-	4	3
4		PE-02	3	1	-	4	3
5		OE-01	3	1	-	4	3
6	SET/EI/BT/C606	PLC and Automation Lab	-	-	2	2	1
7	SET/EI/BT/C607	Process Control Lab	-	-	2	2	1
8	SET/EI/BT/C608	Seminar	-	-	-	4	1
9	SET/SH/BT/A609	Biology *	3	1	-	4	3
Total			18	6	4	32	21

* Applied Science and Humanities.

Professional Elective 02 (PE-02)	S. No.	Code	Course Title
	1	SET/EI/BT/E604 (i)	HVDC Transmission Systems
	2	SET/EI/BT/E604 (ii)	Industrial Electrical Systems
	3	SET/EI/BT/E604 (iii)	Industrial Drives and Controls
	4	SET/EI/BT/E604 (iv)	Electrical distribution System

Open Elective 01 (OE-01)	S. No.	Code	Course Title
	1	SET/EI/BT/E605 (i)	Power Plant Engineering
	2	SET/EI/BT/E605 (ii)	Optical Instrumentation
	3	SET/EI/BT/E605 (iii)	Analog and Digital communication

Semester VII

S. No.	Code	Course Title	L	T	P	Contact Hrs./Week	Credits
1	SET/EI/BT/C701	Biomedical Instrumentation	3	1	-	4	3
2	SET/EI/BT/C702	Vacuum Instrumentation and Thin Film Deposition Techniques	3	1	-	4	3
3		PE-03	3	1	-	4	3
4		OE-02	3	1	-	4	3
5		OE-03	3	1	-	4	3
6	SET/EI/BT/C706	Biomedical Instrumentation Lab	-	-	2	2	1
7	SET/EI/BT/C707	Vacuum Instrumentation and Thin Film Deposition Techniques Lab	-	-	2	2	1
8	SET/EI/BT/C708	Project Preparation	-	-	2	2	1
9	SET/EI/BT/C709	Industrial Training Seminar	-	-	-	-	1
10	SET/HS/BT/H710	Principles of Management (*HSMC)	3	1	-	4	3
Total			18	6	6	30	22

* Humanities and Social Sciences including Management courses.

Professional Elective 03 (PE-03)	S. No.	Code	Course Title
	1	SET/EI/BT/E703 (i)	Electrical Energy Conservation & Auditing
	2	SET/EI/BT/E703 (ii)	Power Quality and FACTS
	3	SET/EI/BT/E703 (iii)	Control Systems II

Open Elective 02 and 03 (OE-02, OE-03)	S. No.	Code	Course Title
	1	SET/EI/BT/E704 (i)	Embedded Systems
		SET/EI/BT/E705 (i)	
	2	SET/EI/BT/E704 (ii)	Fuzzy Logic & Neural Network
		SET/EI/BT/E705 (ii)	
	3	SET/EI/BT/E704 (iii)	Introduction to Robotics
		SET/EI/BT/E705 (iii)	
	4	SET/EI/BT/E704 (iv)	Computer Architecture
		SET/EI/BT/E705 (iv)	

SET/EI/BT/C706. BIOMEDICAL INSTRUMENTATION LAB	
Content	No. of Hrs.
1. Study of electrodes. 2. Measurement of BP. 3. Measurement of PH. 4. Study of EEG, ECG, CAT-SCAN. 5. Visit to Pathological Lab. 6. Hospital visit to see demonstration of EEG, ECG, and CAT-SCAN. 7. MATLAB Simulation for biomedical signal analysis.	14x2
Total No. of Hours	28

SET/EI/BT/C707. VACUUM INSTRUMENTATION AND THIN FILM DEPOSITION TECHNIQUES LAB	
Content	No. of Hrs.
1. Study of rotary pump. 2. Study of diffusion pump. 3. Study of LPCVD setup. 4. Study of Oven. 5. Creating a vacuum. 6. Measurement of Vacuum/ low pressure. 7. Deposition of thin film. 8. Characterization of thin film properties.	14x2
Total No. of Hours	28

SET/EI/BT/C708. PROJECT PREPARATION	
Content	No. of Hrs.
Project Preparation includes following assignments. <ul style="list-style-type: none"> • Survey and study of published literature on the assigned topic; • Working out a preliminary approach to the Problem relating to the assigned topic; • Conducting Preliminary Analysis/ Modeling/ Experiment/ Simulation/ Experiment/ Design/ Feasibility • Preparing a Written Report on the Study conducted for presentation to the Department; • Final Seminar, as oral Presentation before a Departmental Committee. 	24x2
Total No. of Hours	48

SET/EI/BT/C709. INDUSTRIAL TRAINING SEMINAR	
Content	No. of Hrs.
Student shall prepare a detailed report on her/his industrial training and deliver a seminar of 30 minutes.	24x2
Total No. of Hours	48



Date: 23.08.2022

TO WHOM IT MAY CONCERN

This is to hereby certify Mr. Deepak Sinwal S/o. Mr. Dharmbir Singh from HNBGU (Roll No. 19134504016) in appreciation of his work as a Trainee (intern) in RVNL (RKSH-KNPG) Rail Link Project Package-5. He worked under the leadership and supervision of our Manager (Electrical) Mr. Anil Kumar Chauhan, from 04th June 2022 to 04th July 2022.

During the tenure of his summer internship, we found him extremely hard-working, ambitious and meticulous.

We wish him good luck and every success in life and career.

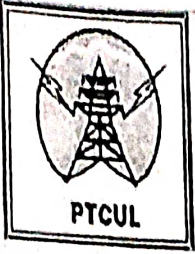
For Navayuga Engineering Co. Ltd

Authorised Signatory

RVNL Site, H/o Mr. Kunwar Singh Negi, Village : Lachmoli, Post : Maletha, District - Tehri Garhwal,
Uttarakhand - 249161, E-mail : rvnlpkg5@necitd.com

Corp. Office: Plot No. 379, Road No. 10, Jubilee Hills, Hyderabad - 500 033.
Tel.: +91-40-44557789, 29559990/91/92, Fax : +91-40-23557789, Email : nec@navayuga.com
Regd. Office : 48-9-17, Dwarakanagar, Visakhapatnam - 530 016.
Tel.: +91-891-2754602, 2747335, Fax : +91-891-2747362, Email : necvizag@navayuga.com
Website : www.necitd.com CIN : U45203AP1986PLC006925





पावर ट्रान्समिशन कारपोरेशन ऑफ उत्तराखण्ड लि०

(उत्तराखण्ड शासक या उपक्रम)

सहायक अभियन्ता (परिचालन एवं अनुरक्षण)

400 के०वी० परिचालन एवं अनुरक्षण, खन्डूखाल, श्रीनगर (ग०)

दूरभाष नं०-7000117047

ईमेल-ae1_oandm_sri_400@ptcul.org

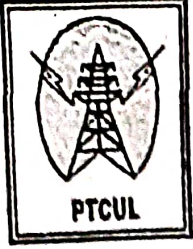
CERTIFICATE

Certified that Mr-Mohd. Shuaib Student of Department of Instrumentation Engineering School of Engineering and Technology Hemvati Nandan Bahuguna Garhwal University, Srinagar (Garhwal)-246174. of second/third/fourth year B.Tech. Electrical and Instrumentation Engineering has been undergone an Industrial training at 400 KV Sub-station, Khandhukhal, Srinagar (G) of Four weeks during the above period he has been studied about woking of outdoor Sub-station, various types of electrical equipment & switchgears like as power and auto transformers, current & potential transformers, bus reactor & circuit breakers, isolators, bus bars, sub-station automation system, protection and metering system, PLLCC, battery banks etc.

Date-05.08.2022

D.P.DANGWAL

(ASSISTANT ENGINEER)
Assistant Engineer (O&M)
400 KV Sub Station
Khandhukhal Srinagar (G)
Srinagar (G)-246125



पावर ट्रान्समिशन कारपोरेशन ऑफ उत्तराखण्ड लि०

(उत्तराखण्ड सरकार का उपक्रम)

सहायक अभियन्ता (परिचालन एवं अनुरक्षण)

400 के०वी० परिचालन एवं अनुरक्षण, खन्डूखाल, श्रीनगर (ग०)

फ़ोन नं०-7080117047

ईमेल-ae1_oandm_sri_400@ptcul.org

CERTIFICATE

Certified that Mr-MD. Ismail Student of Department of Instrumentation Engineering School of Engineering and Technology Hemvati Nandan Bahuguna Garhwal University, Srinagar (Garhwal)-246174 of second/third/fourth year B.Tech. Electrical and Instrumentation Engineering has been undergone an Industrial training at 400 KV Sub-station, Khandhukhal, Srinagar (G) of Four weeks during the above period he has been studied about working of outdoor Sub-station, various types of electrical equipment & switchgears like as power and auto transformers, current & potential transformers, bus reactor & circuit breakers, isolators, bus bars, sub-station automation system, protection and metering system, PLLCC, battery banks etc.

Date-05.08.2022

D.P.DANGWAL

(ASSISTANT ENGINEER)
Assistant Engineer (O&M)
400 KV Sub Station
Khandukhal Srinagar (G)
Distt.-Pauri (G)-246125



इरकॉन इंटरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)
An integrated Engineering and Construction Company

इरकॉन

No. IRCON/HRM/SUMMER INTERNSHIP/32

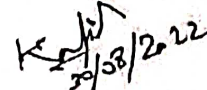
Date: 30.08.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. MD Arshi**, student of Hemvati Nandan Bahuguna Garhwal College, Uttarakhand has successfully completed Summer Internship at Ircon International Limited, NCRTC Project [Location-RSS Ghaziabad Project], from 10.06.2022 to 10.07.2022.

During the training his performance was found satisfactory.

For and on behalf of
Ircon International Limited


(Kapil Malhotra)
Manager/HRM

कपिल मल्होत्रा / KAPIL MALHOTRA
प्रबंधक / मा.स.प्र. / Manager/HRM
इरकॉन इंटरनेशनल लिमिटेड / IRCON INTERNATIONAL LIMITED
(भारत सरकार का उपक्रम) / (A Govt. of India Undertaking)
रेल मंत्रालय / Ministry of Railways
सी-4, डिस्ट्रिक्ट सेंटर, साकेत / C-4, District Centre, Saket
नई दिल्ली-110017 / New Delhi-110017

Copy to:

1. Head of Department, Electrical Department, Hemvati Nandan Bahuguna Garhwal College, Uttarakhand.
2. Mr. MD. Arshi





नौएडा मेट्रो रेल कॉर्पोरेशन लि.

(भारत सरकार एवं उ. प्र. सरकार का संयुक्त उपक्रम)

Noida Metro Rail Corporation Ltd.

(A joint venture of Govt. of India and Govt. of U.P.)

NMRC/HR/Trg.2022/267

Date: September 06, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr/Ms Deepak Kumar student of B.Tech in Electrical & Instrumentation Engineering from Hemwati Nandan Bahuguna Garhwal University Uttarakhand, has undergone Internship of 4 weeks in Electrical department of Noida Metro Rail Corporation Ltd. w.e.f. 7th June 2022.

During the period of internship his/her performance was excellent and he/she was found diligent, hardworking and having inquisitive attitude.

(Rajani Bhardwaj)
Assistant Manager/HR

RAJANI BHARDWAJ
Asstt. Manager/Human Resource
Noida Metro Rail Corporation Ltd.

Ardanuy

India Private Limited

ATD1379/PK/PMC/SR/RVNL/HR/SIP-18

July 08, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Priya Shah** student of Electrical and Instrumentation Engineering enrolled in HNBGU Srinagar, Garhwal (A Central University) has successfully completed a One month Industrial Internship Training from **1st June 2022 to 1st July 2022** in our ongoing project **"Construction of Tunnel and Rail Bridge, over River Alaknanda at Srinagar in connection with Rishikesh-Karanprayag New BG Rail line Project in the state of Uttarakhand, India"** Under the guidance of Sh. A.M. Nautiyal (Resident Engineer).

During this period of her internship program with us, she had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish her every success in her life and career.


21/07/2022
(SATYAJEET KHANDURI)
Project Manager
PMC/ARDANUY INDIA PVT LTD.
RVNL-SRINAGAR

CERTIFICATE

I hereby declare that the Industrial Internship Report entitled "**Bharat Heavy Electricals Limited (BHEL)**" submitted by me to HEMVATI NANDAN BAHUGUNA GARHWAL UNIVERSITY, Srinagar in partial fulfillment of the requirement for the award of the degree of **Bachelor of Technology in Electrical and Instrumentation Engineering** is a record of bonifide industrial training undertaken by me under the supervision of to Mr. Rajendra Kumar. I further declare that the work reported in this report has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.



भारत हेवी इलेक्ट्रिकल्स लिमिटेड रानीपुर, हरिद्वार

BHARAT HEAVY ELECTRICALS LIMITED, RANIPUR, HARIDWAR

TRAINING CERTIFICATE

Registration No. : HWR/HRDC/202101216

Certificate No. : HWR/HRDC/202101112

Mr ANKIT RAWAT Son/Daughter/Wife of Sri SURENDRA SINGH RAWAT , Student of HEMVATI NANDAN BAHUGUNA GARHWAL UNIVERSITY, SRINAGAR GARHWAL (UTTAR/ KHAND) , ELECTRICAL ENGINEERING Branch has undergone Vocational Training in BHARAT HEAVY ELECTRICALS LIMITED, HARIDWAR from 10.06.2022 to 09.07.2022.

The area of training was CONSTRUCTION & WORKING OF TURBO GENERATOR

The performance of the trainee during the above training period was VERY GOOD.

Date : 12.07.2022


(Checked by)


(Section Incharge)

मन्मथ शर्मा
अभिषेक

Certificate



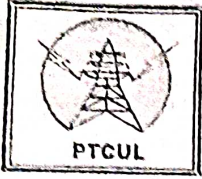
पंजाब टेलीविजन कॉर्पोरेशन लिमिटेड
पंजाब टेलीविजन कॉर्पोरेशन लिमिटेड
पंजाब टेलीविजन कॉर्पोरेशन लिमिटेड
पंजाब टेलीविजन कॉर्पोरेशन लिमिटेड

CERTIFICATE

Certified that Mrs. Pooja Kishore Student of Department of Instrumentation Engineering School of Engineering and Technology Hemvati Nandan Bahuguna Garhwal University, Srinagar (Garhwal) 246174 in secondary education year 12th in Instrumentation and Technology Engineering has been undergone an industrial training at PTCCL, Srinagar (Garhwal) Khandhakhal, Srinagar (G) of four weeks during the above period she has studied about working of outdoor Sub-station, various types of electrical equipment & switchgears like air power and auto transformers, current & potential transformers, bus reactor & circuit breakers, isolators, bus bars, sub-station automation system, protection and monitoring system, PLC, battery banks etc.

Date-05.08.2022

D.P. DANGWAL
(ASSISTANT ENGINEER)
Assistant Engineer (Dd),
420 KV Sub Station,
Khandhakhal Srinagar (G)
Phone: 0192-266123



पावर ट्रान्समिशन कारपोरेशन ऑफ़ उत्तराखण्ड लि०
(उत्तराखण्ड सरकार का स्वामित्व)

सहायक अभियन्ता (परिचालन एवं अनुसंधान)

400 के०वी० परिचालन एवं अनुसंधान, खन्डूखाल, श्रीनगर (ग०)

दूरभाष नं०-7088117847

ईमेल-ae1_oandm_sri_400@ptcul.org

CERTIFICATE

Certified that Mr-Amlandeep Bori Student of Department of Instrumentation Engineering School of Engineering and Technology Hemvati Nandan Bahuguna Garhwal University, Srinagar (Garhwal)-246174 of second/third/fourth year B.Tech. Electrical and Instrumentation Engineering has been undergone an Industrial training at 400 KV Sub-station, Khandhukhal, Srinagar (G) of Four weeks during the above period he has been studied about working of outdoor Sub-station, various types of electrical equipment & switchgears like as power and auto transformers, current & potential transformers, bus reactor & circuit breakers, isolators, bus bars, sub-station automation system, protection and metering system, PLLCC, battery banks etc.

Date-05.08.2022

D.P.DANGWAL

(ASSISTANT ENGINEER)

Assistant Engineer (O&M)

400 KV Sub Station

Khandukhal Srinagar (G)

Distt.-Pauri (G)-246125

MSIL: PROJ: 2022-23

Date: 11-Jul-2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. YASH PAL SINGH NEGI Student of H.N.B. GARHWAL UNIVERSITY, SRINAGAR has undergone project training with Maruti Suzuki India Limited, Manesar as per Details given below :

Project Title : Identification of look a like and interchangeable parts poka-yoke and planning

Training Period : 10-Jun-2022 to 09-Jul-2022

Department /Division : AS-MC

He has completed the above period to our satisfaction and our assessment of his overall project efforts & Learning is **EXCELLENT**.

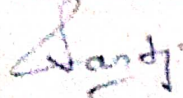
The grading scales used at Maruti Suzuki India Limited are :

- Excellent
- Very Good
- Good
- Satisfactory
- Poor

During the training we found him hardworking ,eager to learn and with good initiative . He was able to develop good inter personal relations with people in the Department /Division .

We wish him very best in his future career.

With Best Wishes



Vinay Rastogi
General Manager – Human Resources

MARUTI SUZUKI INDIA LIMITED**Head Office**

Maruti Suzuki India Limited
1, Nelson Mandela Road, Vasant Kunj,
New Delhi - 110070, India
Tel: 011-46781000 Fax: 011-46150275/46150276
E-mail: contact@maruti.co.in www.marutisuzuki.com

Gurgaon Plant

Maruti Suzuki India Limited,
Old Palam Gurgaon Road,
Gurgaon - 122015, Haryana, India
Tel: 0124-2345721, Fax: 0124-2341304

Manesar Plant

Maruti Suzuki India Limited,
Plot no 1, Phase - 3A, SAT Manesar,
Gurgaon - 122051, Haryana, India
Tel: 0124-4634000 Fax: 0124-4634100



भारत हेवी इलेक्ट्रिकल्स लिमिटेड रानीपुर, हरिद्वार

BHARAT HEAVY ELECTRICALS LIMITED, RANIPUR, HARIDWAR

TRAINING CERTIFICATE

Registration No. : HWR/HRDC/202101214


Certificate No. : HWR/HRDC/202101113

Mr MC HIT SINGH RAWAT Son/Daughter/Wife of Shri DALBEER SINGH RAWAT , Student of HEMWAT NANADAN BAHUGUNA GARHWAL UNIVERSITY, SRINAGAR GARHWAL (UTTARAKHAND) , ELECTRICAL ENGINEERING Branch has undergone Vocational Training in BHARAT HEAVY ELECTRICALS LIMITED, HARIDWAR from 10.06.2022 to 09.07.2022.

The area of training was CONSTRUCTION & WORKING OF TURBO GENERATOR

The performance of the trainee during the above training period was VERY GOOD.

Date : 09.07.2022


(Checked by)


(Section Incharge)

नमो भगवते वासुदेवाय
प्रमाण

मानव संसाधन विकास विभाग
बी.एस.एस., रानीपुर, हरिद्वार



पावर ट्रांसमिशन कारपोरेशन ऑफ उत्तराखण्ड लि०

(उत्तराखण्ड सरकार का उपकरण)

सहायक अभियन्ता (परिचालन एवं अनुशासन)

400 के०वी० परिचालन एवं अनुशासन, खन्नुखाल, श्रीनगर (ग०)

दूरभाष नं०-7066117817

ईमेल-ael_oandm_srl_400@ptcul.org

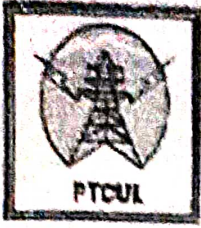
CERTIFICATE

Certified that Mr-Sumit Pushpendra Student of Department of Instrumentation Engineering School of Engineering and Technology Hemvati Nandan Bahuguna Garhwal University, Srinagar (Garhwal)-246174 of second third fourth year B.Tech. Electrical and Instrumentation Engineering has been undergone an Industrial training at 400 KV Sub-station, Khandhukhal, Srinagar (G) of Four weeks during the above period he has been studied about woking of outdoor Sub-station, various types of electrical equipment & switchgears like as power and auto transformers, current & potential transformers, bus reactor & circuit breakers, isolators, bus bars, sub-station automation system, protection and metering system, PLLCC, battery banks etc.

Date-05.08.2022

D.P.DANGWAL

(ASSISTANT ENGINEER)
Assistant Engineer (O&M)
400 KV Sub Station
Khandukhal Srinagar (G)
Distt.-Pauri (G)-246125




पावर ट्रांसमिशन कारपोरेशन ऑफ उत्तराखण्ड लि0
(उत्तराखण्ड शासक का उपकरण)

सहायक अभियन्ता (परिचालन एवं अनुसंधान)
400 क्वी0 परिचालन एवं अनुसंधान, खन्डुखाल, श्रीनगर (ग0)
फ़ोन नं0-7080117547 ईमेल-881_oandm_sri_400@ptcul.org

CERTIFICATE

Certified that Mr-Naveen Kumar Student of Department of Instrumentation Engineering School of Engineering and Technology Hemvati Nandan Bahuguna Garhwal University, Srinagar (Garhwal)-246174 of second/third/fourth year B.Tech. Electrical and Instrumentation Engineering has been undergone an Industrial training at 400 KV Sub-station, Khandukhal, Srinagar (G) of Four weeks during the above period he has been studied about working of outdoor Sub-station, various types of electrical equipment & switchgears like as power and auto transformers, current & potential transformers, bus reactor & circuit breakers, isolators, bus bars, sub-station automation system, protection and metering system, PLLCC, battery banks etc.

Date-05.08.2022


D.P.DANGWAL
(ASSISTANT ENGINEER)
Assistant Engineer (O&M)
400 KV Sub Station
Khandukhal Srinagar (G)
Phone No. 7080117547

TO WHOM IT MAY CONCERN

This is to certify that Mr. Ayush Mishra , S/O- Mr. Vijay Kishore Mishra, a student of Electrical and Instrumentation Engineering enrolled in Hemvati Nandan Bahuguna Garhwal University (HNBGU) , Srinagar, Garhwal has successfully completed one month (From 13 June 2022 to 13 July 2022) long internship program at " Voltas limited DPG division , Delhi , India (at NBCC project site) ". Under the guidance of Mr. Sudhanshu Mishra (Manager projects) . During the period of his internship program with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.

A circular stamp of Voltas Limited is placed over a handwritten signature. The stamp contains the word "VOLTAS" in the center and "DOMESTIC PROJECTS GROUP" around the perimeter.

Authorized Signature

VOLTAS LIMITED

Domestic Projects Group

A-43, Mohan Co-operative Industrial Estate, Mathura Road, New Delhi - 110044

Tel: 011- 26505550, Fax: 011- 26950022/RT, Website: www.voltas.com

Corporate Identity Number L29388MH1954PLC009371

A **TATA** Enterprise



नौएडा मेट्रो रेल कॉरपोरेशन लि.

(भारत सरकार एवं उ. प्र. सरकार का संयुक्त उपक्रम)

Noida Metro Rail Corporation Ltd.

(A joint venture of Govt. of India and Govt. of U.P.)

NMRC/HR/Trg.2022/229

Date: 25th August, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr/Ms Aqil Hasan, student of B.Tech in Electrical & Instrumentation Engineering from Hemvati Nandan Bahuguna Garhwal University Uttarakhand has undergone Internship of 4 weeks in Electrical department of Noida Metro Rail Corporation Ltd. w.e.f. 7th June 2022.

During the period of internship his/her performance was excellent and he/she was found diligent, hardworking and having inquisitive attitude.

(Rajani Bhardwaj)

Assistant Manager/HR
RAJANI BHARDWAJ

Asstt. Manager/Human Resource
Noida Metro Rail Corporation Ltd.



नौएडा मेट्रो रेल कॉर्पोरेशन लि.

(भारत सरकार एवं उ. प्र. सरकार का संयुक्त उपक्रम)

Noida Metro Rail Corporation Ltd.

(A joint venture of Govt. of India and Govt. of U.P.)

NMRC/HR/Trg.2022/266

Date: September 06, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr/Ms Ashutosh Kumar student of B.Tech in Electrical & Instrumentation Engineering from Hemwati Nandan Bahuguna Garhwal University Uttarakhand, has undergone Internship of 4 weeks in Electrical department of Noida Metro Rail Corporation Ltd. w.e.f. 7th June 2022.

During the period of internship his/her performance was excellent and he/she was found diligent, hardworking and having inquisitive attitude.


(Rajani Bhardwaj)
Assistant Manager/HR

RAJANI BHARDWAJ
Asstt. Manager/Human Resource
Noida Metro Rail Corporation Ltd.

Date: 23.08.2022

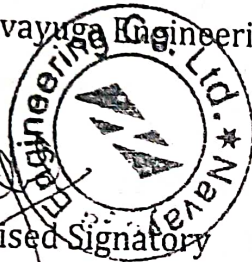
TO WHOM IT MAY CONCERN

This is to hereby certify Mr. Nikhil S/o. Mr. Uttam Singh Silwal from HNBSU (Roll No. 19134504008) in appreciation of his work as a Trainee (Intern) in RVNL (RKSH-KNPG) Rail Link Project Package-5. He worked under the leadership and supervision of our Manager (Electrical) Mr. Anil Kumar Chauhan, from 04th June 2022 to 04th July 2022.

During the tenure of his summer internship, we found him extremely hard-working, ambitious and meticulous.

We wish him good luck and every success in life and career.

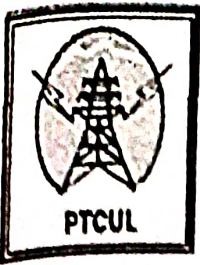
For Navayuga Engineering Co. Ltd


Authorised Signatory

RVNL Site, H/o Mr. Kunwar Singh Negi, Village : Lachmoli, Post : Maletha, District -Tehri Garhwal, Uttarakhand - 249161, E-mail : rvlpkg5@necLtd.com

Corp. Office: Plot No. 379, Road No. 10, Jubilee Hills, Hyderabad - 500 033.
Tel.: +91-40-44557789, 29559990/91/92, **Fax :** +91-40-23557789, **Email :** nec@navayuga.com
Regd. Office : 48-9-17, Dwarakanagar, Visakhapatnam - 530 016.
Tel.: +91-891-2754602, 2747335, **Fax :** +91-891-2747362, **Email :** necvizag@navayuga.com
Website : www.necLtd.com **CIN :** U45203AP1986PLC006925






पावर ट्रांसमिशन कारपोरेशन ऑफ उत्तराखण्ड लि०
(उत्तराखण्ड सरकार का उपक्रम)

राष्ट्रीय अभियन्ता (परिचालन एवं अनुसंधान)
400 के०वी० परिचालन एवं अनुसंधान, खन्धुखाल, श्रीनगर (ग०)
दूरभाष नं०-7000117047 ईमेल-ae1_oandm_srl_400@ptcul.org

CERTIFICATE

Certified that Mr-M. Vikram Student of Department of Instrumentation Engineering School of Engineering and Technology Hemvati Nandan Bahuguna Garhwal University, Srinagar (Garhwal)-246174 of second/third/fourth year B.Tech. Electrical and Instrumentation Engineering has been undergone an Industrial training at 400 KV Sub-station, Khandhukhal, Srinagar (G) of Four weeks during the above period he has been studied about working of outdoor Sub-station, various types of electrical equipment & switchgears like as power and auto transformers, current & potential transformers, bus reactor & circuit breakers, isolators, bus bars, sub-station automation system, protection and metering system, PLLCC, battery banks etc.

Date-05.08.2022


D.P.DANGWAL
(ASSISTANT ENGINEER)
Assistant Engineer (O&M)
400 KV Sub Station
Khandhukhal Srinagar (G)
Pin-Pauri (G)-246125



नौएडा मेट्रो रेल कॉरपोरेशन लि.

(भारत सरकार एवं उ. प्र. सरकार का संयुक्त उपक्रम)

Noida Metro Rail Corporation Ltd.

(A joint venture of Govt. of India and Govt. of U.P.)

NMRC/HR/Trg.2022/228

Date: 25th August, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr/Ms Azhar Uddin, student of B.Tech in Electrical & Instrumentation Engineering from Hemvati Nandan Bahuguna Garhwal University Uttarakhand has undergone Internship of 4 weeks in Electrical department of Noida Metro Rail Corporation Ltd. w.e.f. 7th June 2022.

During the period of internship his/her performance was excellent and he/she was found diligent, hardworking and having inquisitive attitude.

(Rajani Bhardwaj)

Assistant Manager/HR

RAJANI BHARDWAJ

Asstt. Manager/Human Resource
Noida Metro Rail Corporation Ltd.