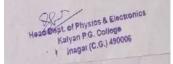
#### **REPORT OF PROJECT 2020-21**

Total No Of Student - 29

S N	STUDENT NAME	PROJECT TITLE NAME	
1	SHIFA MIRZA	Solar lamp & power bank using solar panel	
2	BHOORASHMI PATEL	Compect mobile charger and solar lamp	
3	VISHAKHA SINGH	Automatic water dispenser using arduino	
4	HARISH	Automatic water dispenser using arduino	
5	PRIYA VIDYA	To make a thorough study of warmed steam	
		vaporizer and all accessories associated with it	
6	SATESH KUMAR	Wireless notice board using arduino	
7	SEWENT KUMAR	Wireless notice board using arduino	
8	NANDANI DEWAGAN	Steam inhaler	
9	MANEESH KUMAR	Automatic water dispenser using arduino	
10	KANCHAN DEWAGAN	Automatic water dispenser using arduino	
11	VIMAL KUMAR DEWAGAN	Automatic plant watering system using arduino	
12	JYOTI DEWAGAN	Thin film deposition by spray pyrolysis method	
13	UMA SEN	Automatic plant watering system using	
14	ARCHANA VARMA	Compact mobile charger and solar lamp	
15	ROSHANI SAHU	Wire-less notice board using arduino	
16	DEVIKA	Wire-less notice board using arduino	
17	GANESHWAR	Bi- directional visitor counter	
18	TANUJA	Bi- directional visitor counter	
19	DOMESH KUMAR	Bi- directional visitor counter	
20	SNEHA CHAURASIYA	Smart dustbin with using arduino	
21	POONAM DEWAGAN	Bi- directional visitor counter	
22	MONIKA THAKUR	Solar lamp & power bank using solar panel	
23	DEEKHSA RANI SAHU	Compact mobile charger and solar lamp	
24	GITENDRA	Automatic plant watering system using arduino	
25	AARTI PATEL	Smart dustbin with using	
26	DHANESHWARI SAHU	Bi-directional visitor counter	
27	JYOTI ADIL	To make a thorough study of warmed steam	
		vaporizer & all accessories associated with it	
28	INDU GUPTA	Compact mobile charger and solar lamp	
29	RAJAN JOSHI	Automatic plant watering system using arduino	

HOD



DEPARTMENT OF PHYSICS AND ELECTRONICS KALYAN P.G. COLLAGE BHILAI NAGAR



CERTIFICATE

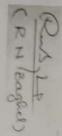
This is to certify that , the work on the report entitled "compact mobile charger and solar lamp" by BHOORASHMI PATEL in partial fulfilment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance .The work is satisfactory to the best of my knowledge.

Date : \% | 8 | 8 ]

Guided by Dr. Neelam Sukla IVIam 8.21

Kalyan P.G. Collage Bhilai Nagar Dept. of Physics and Electronics

> Examined By RN BAGHEL



Head of Dept. -ulc

Kalyan P.G. collage Bhilai Prof. Y.P. Patel Sir Head Dept. or Physics & Electronics



CERTIFICATE

This is to certify that the project report on "Automatic water dispenserusing arduino" has been carried out by VISHAKHA SINGH a student of Kalyan P.G. college Bhilai Nagar (C.G). She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

She has carried out the project under my guidance and this is her original work.

Place : Bhilai Date :

Guided by Mrs.Kiran Dewangan

(Assistant Professor Dept.of ET&T BIT DURG)

RN (Raghel)

Examined by

Head Dept. of Physics & Electronics Kalyan P.G. College F inagar (C.G.) 490008 Prof. Y.P. PATEL (HOD Department of physics)



CERTIFICATE

This is to certify that the project report on "Automatic water dispenserusing arduino" has been carried out by HARISH a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

9

Guided by Mrs.Kiran Dewangan (RN leaghed)

Examined by

(Assistant Professor Dept.of ET&T BIT DURG)

Head Dept. of Physics & Electronics Kalyan P.G. College i inagar (C.G.) 490006 Prof. Y.P. PATEL (HOD Department of physics)

# CERTIFICATE

This is to certify that the project entitled "Solar Lamp & Power Bank using Solar Panel" has been carried out by the student of Master of Science degree in Physics, is completed by

Shifa Mirza

of

Kalyan PG Collage

**Department of Physics & Electronics** 

Under the guidance of

Dr. Neelam Shukla

(Asst. Prof. of Physics Department)

During the academic session 2020-21 towards partial fulfillment as per required of Hemchand Yadav University, Durg.

R N (Baghel)

Guided By: Dr.Neelam Shukla (Asst.Prof. of Physics Dept)

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Examined By:

Head Dept. of Physics & Electronics Kalyan P.G. College Head of Department:

Prof.Y.P.Patel

# DEPARTMENT OF PHYSICS & ELECTRONICS KALYAN P. G. COLLEGE, BHILAI

# CERTIFICATE

This is to certify that, the work in the report entitled "To make a thorough study of warmed steam vaporizer and all accessories associated with it" by Priya Vaidya in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried but by her under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date: 13 8 21

Guided by 15 Dr. Neelam Shukla

Examined by

Dept. of Physics and electronics

Kalyan P.G. College, Bhilai

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490005 Head of Dept.

Prof. Y.P. Patel Dept. of Physics and electronics

Kalyan P.G. College, Bhilai

External signature

PN Baghel)



This is to certify that the project report on **WIRE-LESS NOTICE BOARD USING ARDUINO**" has been carried out by **SATEESH KUMAR** a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date : 13/8/2001



Guided by Mrs.Kiran Dewangan (Asst. Prof. BIT DURG)

Examined by

by Prof. Y.P. PATEL (HOD Department of physics)

Scanned with CamScanner



**CERTIFICATE** 

This is to certify that the project report on "WIRE-LESS NOTICE BOARD USING ARDUINO" has been carried out by SEWANT KUMAR a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

(RH Eaghel)

**Examined** by

Guided by Mrs.Kiran Dewangan (Asst. Prof. BIT DURG)

-4 Head Dept. of Physics & Electronics

Head Dept. of Physics & Electronics Kaiyan P.G. College inagar (C.G.) 490006 Prof. Y.P. PATEL

(HOD Department of physics)

Scanned with CamScanner

#### DEPARTMENT OF PHYSICS & ELECTRONICS KALYAN P. G. COLLEGE, BHILAI



#### **CERTIFICATE**

This is to certify that, the work in the report entitled "Steam Inhaler" by Nandani Dewangan in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried but by her under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date:

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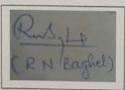
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Guided by F.21 Dr. Neelam Shukla

Dept. of Physics and electronics Kalyan P.G. College , Bhilai

#### Examined by



Hero bept of Patelics & Electronics Dept. of Physics and electronics

Kalyan P.G. College, Bhilai

Scanned with CamScanner



This is to certify that the project report on "Automatic water dispenser using arduino" has been carried out by MANEESH KUMAR a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

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(RH) 203 Seel)

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Prof. Y.P. PATEL (HOD Department of physics)

Guided by Mrs.Kiran Dewangan

Examined by



This is to certify that the project report on "Automatic water dispenser using arduino" has been carried out by Kanchan Dewangan a student of Kalyan P.G. college Bhilai Nagar (C.G). She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

She has carried out the project under my guidance and this is her original work.

Place : Bhilai Date :

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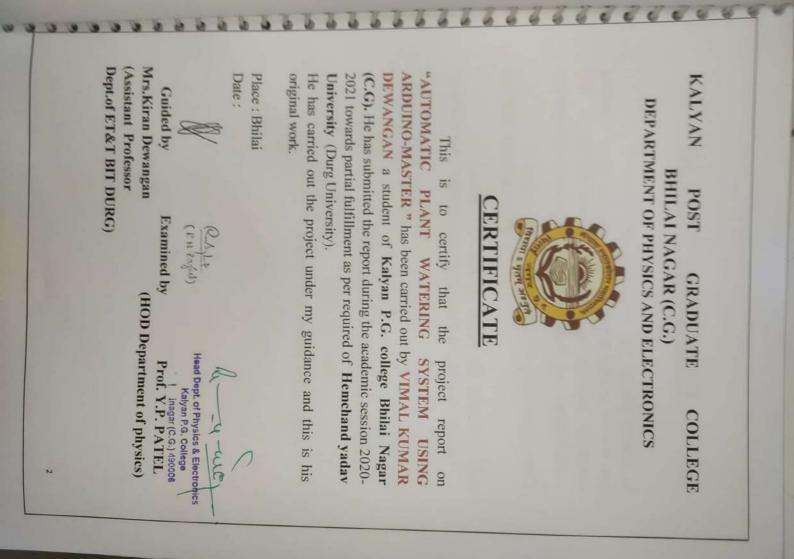
(RN leaghel)

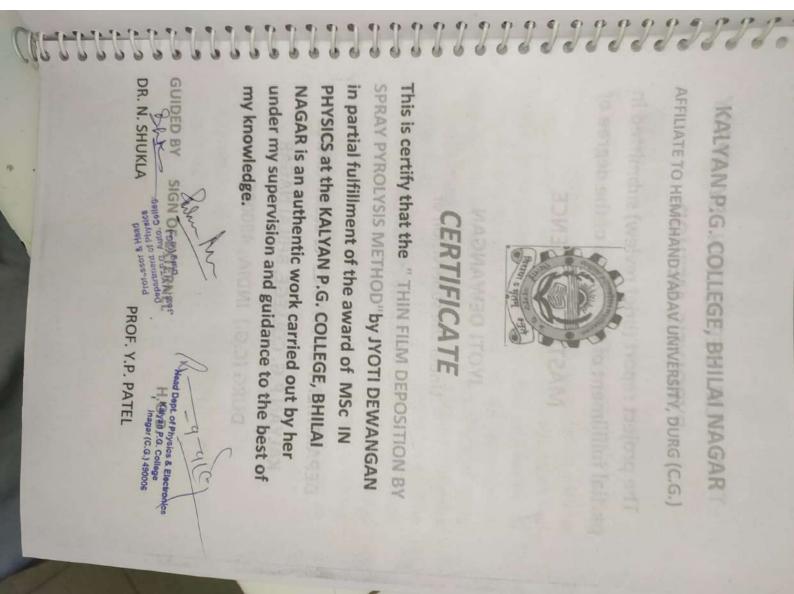
Guided by Exa Mrs.Kiran Dewangan (Assistant Professor Dept.of ET&T BIT DURG)

Examined by

2 -q -uc

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Prof. Y.P. PATEL (HOD Department of physics)





	Place : Bhilai Date : Guided by Guided by Mrs.Kiran Dewangan (Assistant Professor Dept.of ET&T BIT DURG)	This is to certify that the "AUTOMATIC PLANT WATERING ARDUINO-MASTER" has been carried student of Kalyan P.G. college Bhilai I submitted the report during the academic sess partial fulfillment as per required of Hemch (Durg University). He has carried out the project under my go original work.	10	KALYAN POST BHILAI DEPARTMENT OF
	(HOD De	uid lai	CERTIFICATE	LYAN POST GRADUATE COL BHILAI NAGAR (C.G.) DEPARTMENT OF PHYSICS AND ELECTRONICS
2	Head Dept. of Physics & Electronics Kalyan P.G. College Prof. Y.P. PATEL (HOD Department of physics)	project report on SYSTEM USING ut by UMA SEN a ggar (C.G). He has on 2020-2021 towards nd yadav University and yadav University		COLLEGE

# DEPARTMENT OF PHYSICS AND ELECTRONICS KALYAN P.G. COLLAGE BHILAI NAGAR



This is to certify that , the work on the report entitled "compact mobile charger and solar lamp" by **ARCHANA VERMA** in partial fulfilment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance . The work is satisfactory to the best of my knowledge

Place : Bhilai

Date :

Guided By Dr. Neelam Sukla Mam

Daprtment of physics and electronics electronics

Kalyan P.G. collage Bhilai Nagar

**Examine By** 

Head Dept. of Physics & Electronics

Kalyan P.G. College Head of Dept: ) 490006

Prof. Y.P. Patel Sir Daprtment of physics and

Kalyan P.G. Collage Bhilai Nagar

N Baghel)



**CERTIFICATE** 

This is to certify that the project report on "WIRE-LESS NOTICE BOARD USING ARDUINO" has been carried out by ROSHANI SAHU a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date : 13 / D4 [202]



Guided by Mrs.Kiran Dewangan (Asst. Prof. BIT DURG)

(RN laghel)

Examined by

by Prof. Y.P. PATEL (HOD Department of physics) Head Dept. of Physics & Electronics Kalyan P.G. College

Scanned with CamScanner



# **CERTIFICATE**

This is to certify that the project report on "WIRE-LESS NOTICE BOARD USING ARDUINO" has been carried out by DEVIKA a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date : 18 | 08 | 2021



Guided by Mrs.Kiran Dewangan (Asst. Prof. BIT DURG)

(RN Eaghel) B

Examined by

by Prof. Y.P. PATEL (HOD Department of physics) Head Dept. of Physics & Electronics Kalyan P.G. College i Jnagar (C.G.) 490006

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### CERTIFICATE

This is to certify that the work in the report entitled <u>'BI-DIRECTIONAL</u> <u>VISITOR COUNTER'</u> by GANESHWAR in partial fulfillment of Master of Science degree in PHYSICS at Kalyan Post Graduate College, Bhilai Nagar, affiliated by Hemchand Yadav University, Durg (Chhattisgarh) is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

> (R.N. LA (R.N. Eaghel)

Examined By

Place: Bhilai

Date: 13-08-2021

Guided By

Mrs. Kiran Dewangan Asst. Professor (Dept. of ET&T, BIT, DURG)

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 49000s Head of the Dept.

Prof. Y. P. Patel (Dept. of Physics and Electronics)



# **CERTIFICATE**

This is to certify that the work in the report entitled <u>'BI-DIRECTIONAL</u> <u>VISITOR COUNTER'</u> by TANUJA in partial fulfillment of Master of Science degree in PHYSICS at Kalyan Post Graduate College, Bhilai Nagar, affiliated by Hemchand Yadav University, Durg (Chhattisgarh) is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

#### Place: Bhilai

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Date: 13/08/2021

#### **Guided By**

Mrs. Kiran Dewangan Asst. Professor

(Dept. of ET&T, BIT, DURG)

(RN leaghel)

**Examined By** 

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Head of the Dept.

Prof. Y. P. Patel (Dept. of Physics and Electronics)



# **CERTIFICATE**

This is to certify that the work in the report entitled 'BI-DIRECTIONAL VISITOR COUNTER' by DOMESH KUMAR in partial fulfillment of Master of Science degree in PHYSICS at Kalyan Post Graduate College, Bhilai Nagar, affiliated by Hemchand Yadav University, Durg (Chhattisgarh) is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai Date: 13/08/202/

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#### **Guided By**

Mrs. Kiran Dewangan Asst. Professor

(Dept. of ET&T, BIT, DURG)

Rus, LA (RH Eaghel)

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**Examined By** 

Head Dept. of Physics & Electronics Kalyan P.G. College Head of the Dept.

Prof. Y. P. Patel (Dept. of Physics and Electronics)



# CERTIFICATE

This is to certify that the project report on "SMART DUSTBIN WITH USING ARDUINO-MASTER " has been carried out by SNEHA CHOURASIYA a student of Kalyan P.G. college Bhilai Nagar (C.G). She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University). She has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

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Guided by Sty Examined by Dr. NEELAM SHUKLA

(Assistant Professor Of kalyan College Bhilai)

Head Dept. of Physics & Electronics Kalyan P.G. College Prof. Y.P. PATEL0006 (HOD Department of physics)

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#### DEPARTMENT OF PHYSICS & ELECTRONICS KALYAN P. G. COLLEGE, BHILAI



#### **CERTIFICATE**

This is to certify that, the work in the report entitled "Steam Inhaler" by Nandani Dewangan in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried but by her under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date:

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Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Head of Dept.

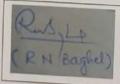
Prof. Y.P. Patel

Dept. of Physics and electronics

Kalyan P.G. College, Bhilai

Guided by At 3.821 Dr. Neelam Shukla

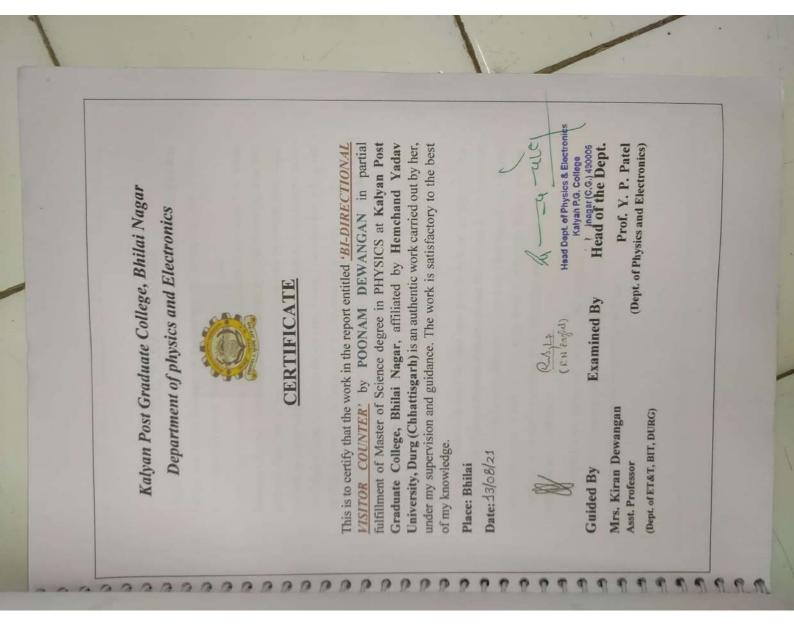
Dept. of Physics and electronics Kalyan P.G. College , Bhilai Examined by

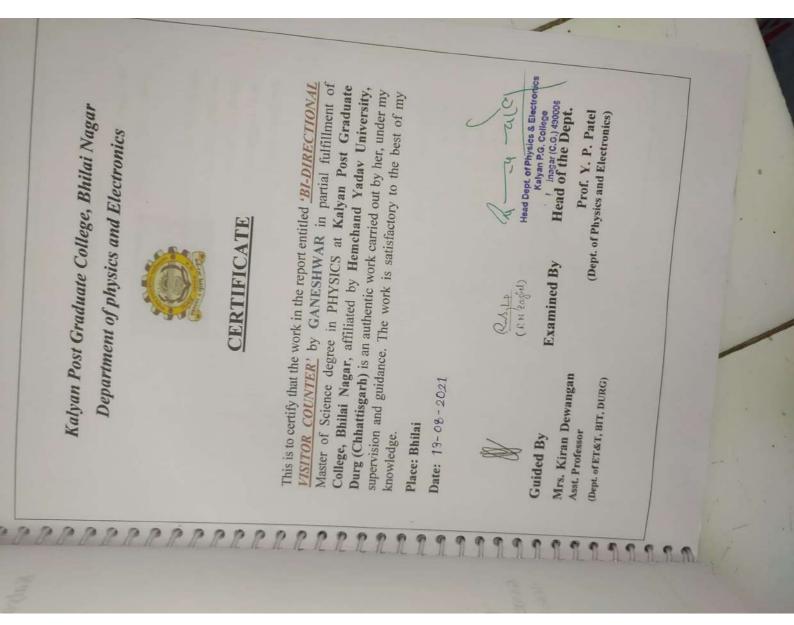


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# CERTIFICATE

Bank using Solar Panel" has been carried out by the student of This is to certify that the project entitled "Solar Lamp & Power Master of Science degree in Physics, is completed by

# MONIKA THAKUR

of

Kalyan PG Collage

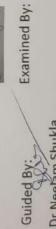
Department of Physics & Electronics

Under the guidance of

Dr. Neelam Shukla

(Asst. Prof. of Physics Department)

-al C During the academic session 2020-21 towards partial fulfillment 7 as per required of Hemchand Yadav University, Durg.



(Asst. Prof. of Physics Dept) Dr.Neefam Shukla

Prof.Y.P.Patel

Head Dept. of Physics & Electronic Head of Department: Kalyan P.G. College

Head Dept. of Physics & Electrohics · 1 Inagar (C.G.) 490006 (HOD Department of physics) He has carried out the project under my guidance and this is his DEVIKA a student of Kalyan P.G. college Bhilai Nagar (C.G). He towards partial fulfillment as per required of Hemchand yadav This is to certify that the project report on "WIRE-LESS NOTICE BOARD USING ARDUINO" has been carried out by has submitted the report during the academic session 2020-2021 Prof. Y.P. PATEL Kalyan P.G. College m br DEPARTMENT OF PHYSICS AND ELECTRONICS KALYAN POST GRADUATE COLLEGE 2 CERTIFICATE (RN Raged) BHILAI NAGAR (C.G.) **Examined by** ( Sand University (Durg University). (Asst. Prof. BIT DURG) Date : 10 08 2021 Mrs.Kiran Dewangan Guided by original work. Place : Bhilai

#### DEPARTMENT OF PHYSICS AND ELECTRONICS KALYAN P.G. COLLAGE BHILAI NAGAR



CERTIFICATE

This is to certify that , the work on the report entitled "compact mobile charger and solar lamp" by **DEEKSHA RANI SAHU** in partial fulfilment of Master of Science degree in Physics at Kalvan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance. The work is satisfactory to the best of my knowledge.

Place : Bhilai

Date :

Guided by

Dr. Neelam Sukla Mam Dept. of Physics and Electronics Kalyan P.G. Collage Bhilai Nagar

#### **Examined By**

R N (Baghel)

Head Dept. of Physics & Electronics Kalyan P.G. College Head of Dept.

Prof. Y.P. Patel Sir Dept. of Physics and Electronics Kalyan P.G. collage Bhilai

## DEPARTMENT OF PHYSICS AND ELECTRONICS KALYAN P.G. COLLAGE BHILAI NAGAR



#### CERTIFICATE

This is to certify that , the work on the report entitled "compact mobile charger and solar lamp" by **BHOORASHMI PATEL** in partial fulfilment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance .The work is satisfactory to the best of my knowledge.

Place : Bhilai

Date : 13 8 21 Guided by Dr. Neelam Sukla Mam

Dept. of Physics and Electronics Kalyan P.G. Collage Bhilai Nagar

#### **Examined By** RN BAGHEL

Rubsle R N (Baghel) Head Dept. of Physics & Electronid Kalyan P.G. College Head of Dept. Prof. Y.P. Patel Sir

Dept. of Physics and Electronics Kalyan P.G. collage Bhilai

#### COLLEGE GRADUATE POST KALYAN **BHILAI NAGAR (C.G.)** DEPARTMENT OF PHYSICS AND ELECTRONICS



CERTIFICATE

certify that the project report on This is to USING SYSTEM WATERING "AUTOMATIC PLANT ARDUINO-MASTER " has been carried out by GITENDRA a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date: 13-08-2021

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(RN Eagled)

Examined by

Guided by Mrs.Kiran Dewangan (Assistant Professor Dept.of ET&T BIT DURG)

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Prof. Y.P. PATEL (HOD Department of physics)

2

# DEPARTMENT OF PHYSICS AND ELECTRONICS KALYAN P.G. COLLAGE BHILAI NAGAR



#### CERTIFICATE

This is to certify that , the work on the report entitled "compact mobile charger and solar lamp" by ARCHANA VERMA in partial fulfilment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance . The work is satisfactory to the best of my known of the satisfactory of the best of the satisfactory to the satisfa my knowledge.

Place : Bhilai

Date :

Guided By QUZ

Dr. Neelam Sukla Mam

Daprtment of physics and electronics electronics

Kalyan P.G. collage Bhilai Nagar

Examine By

d Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Head of Dept.

Prof. Y.P. Patel Sir

Daprtment of physics and

Kalyan P.G. Collage Bhilai Nagar

(RN Baghel)

# **DEPARTMENT OF PHYSICS & ELECTRONICS** KALYAN P. G. COLLEGE, BHILAI



## CERTIFICATE

This is to certify that, the work in the report entitled "smart dustbin with using arduino" by AARTI PATEL in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried but by her under my supervision and guidance . The work is satisfactory to the best of my knowledge. Place: Bhilai

Date: 18/08/2021

Guided by Dr. Neelam Shukla

Examined by

Dept. of Physics and electronics

Kalyan P.G. College, Bhilai

Head Dept. of Physics & Electronics Kalyan P.G. College Head of Department

Prof. Y.P. Patel

Dept. of Physics and electronics

Kalyan P.G. College, Bhilai



### **CERTIFICATE**

This is to certify that the work in the report entitled 'BI-DIRECTIONAL VISITOR COUNTER' by DOMESH KUMAR in partial fulfillment of Master of Science degree in PHYSICS at Kalyan Post Graduate College, Bhilai Nagar, affiliated by Hemchand Yadav University, Durg (Chhattisgarh) is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

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Date: 13-08-2021

Guided By Mrs. Kiran Dewangan Asst. Professor

(Dept. of ET&T, BIT, DURG)

(RN Eaghel)

**Examined By** 

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490005 Head of the Dept.

Prof. Y. P. Patel (Dept. of Physics and Electronics)



## CERTIFICATE

This is to certify that the work in the report entitled <u>BI-DIRECTIONAL</u> <u>VISITOR COUNTER</u>' by DHANESHWARI SAHU in partial fulfillment of Master of Science degree in PHYSICS at Kalyan Post Graduate College, Bhilai Nagar, affiliated by Hemchand Yadav University, Durg (Chhattisgarh) is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

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Date: 13/08/21

Guided By Mrs. Kiran Dewangan Asst. Professor (Dept. of ET&T, BIT, DURG)

Rus, LA (RN Eaghel)

**Examined By** 

C Head Dept. of Physics & Electronic

Kalyan P.G. College Head of the Dept.

Prof. Y. P. Patel (Dept. of Physics and Electronics)

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# CERTIFICATE

This is to certify that the project report on "Automatic water dispenser using arduino" has been carried out by MANEESH KUMAR a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

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Sill Pl

(RH Raghel)

Guided by Mrs.Kiran Dewangan

Examined by

h-9-41C1

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Prof. Y.P. PATEL (HOD Department of physics)



# CERTIFICATE

This is to certify that the project report on "Automatic water dispenser using arduino" has been carried out by Kanchan Dewangan a student of Kalyan P.G. college Bhilai Nagar (C.G). She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

She has carried out the project under my guidance and this is her original work.

Place : Bhilai Date :

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Guided by Ex Mrs.Kiran Dewangan (Assistant Professor Dept.of ET&T BIT DURG)

(EN leaghed)

Examined by

Head Dept. of Physics & Electronics Kalyan P.G. College Inagar (C.G.) 49000s Prof. Y.P. PATEL (HOD Department of physics)

# DEPARTMENT OF PHYSICS & ELECTRONICS KALYAN P. G. COLLEGE, BHILAI

# **CERTIFICATE**

This is to certify that, the work in the report entitled "To make a thorough study of warmed steam vaporizer and all accessories associated with it" by jyoti adil in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai affiliated by Hemchand Yadav University, Durg (CG) is an authentic work carried but by her under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

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Guided by Dr. Neelam Shukla

Examined by

Dept. of Physics and electronics

Kalyan P.G. College, Bhilai

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Head of Dept.

Prof. Y.P. Patel Dept. of Physics and electronics

Kalyan P.G. College, Bhilai

**External signature** 

(RN Baghel)

Kalyan Post Graduate College, Bhilai Nagar Department of physics and Electronics



#### **CERTIFICATE**

This is to certify that the work in the report entitled <u>'BI-DIRECTIONAL</u> <u>VISITOR COUNTER'</u> by TANUJA in partial fulfillment of Master of Science degree in PHYSICS at Kalyan Post Graduate College, Bhilai Nagar, affiliated by Hemchand Yadav University, Durg (Chhattisgarh) is an authentic work carried out by her, under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

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Date: 13/08/2021

**Guided By** 

Mrs. Kiran Dewangan Asst. Professor

(Dept. of ET&T, BIT, DURG)

(RN Eaghed)

**Examined By** 

C

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Head of the Dept.

Prof. Y. P. Patel (Dept. of Physics and Electronics)

# DEPARTMENT OF PHYSICS AND ELECTRONICS KALYAN P.G. COLLAGE BHILAI NAGAR

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# CERTIFICATE

This is to certify that, the work on the report entitled "compact mobile charger and solar lamp" by **INDU GUPTA** in partial fulfilment of Master of Science degree in Physics at Kalyan P.G. Collage Bhilai affiliated by Hemchand Yadav University Durg (CG) is an authentic work carried by her under my supervision of guidance .The work is satisfactory to the best of my knowledge.

Place : Bhilai

Date : 13 8 8021

Guided by AS

Dr. Neelam Sukla Mam

Dept. of Physics and Electronics

Kalyan P.G. Collage Bhilai Nagar

**Examined By** 

**RN BAGHEL** 

R N (Baghel)

Head Dept. of Physics & Electronics Head of Dept. Kalyan P.G. College alci

Prof. Y.P. Patel Sir

Dept. of Physics and Electronics Kalyan P.G. collage Bhilai



**CERTIFICATE** 

This is to certify that the project report on "Automatic water dispenserusing arduino" has been carried out by HARISH a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

eaghel)

Guided by Mrs.Kiran Dewangan

Examined by

Examine

Head Dept. of Physics & Electronics Kalyan P.G. College Prof. Y.P. PATEL (HOD Department of physics)

(Assistant Professor Dept.of ET&T BIT DURG)



# **CERTIFICATE**

This is to certify that the project report on "AUTOMATIC PLANT WATERING SYSTEM USING ARDUINO-MASTER" has been carried out by UMA SEN a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

(RN Raghel)

Examined by

Guided by Exa Mrs.Kiran Dewangan (Assistant Professor Dept.of ET&T BIT DURG)

Head Dept. of Physics & Electronics Kalyan P.G. College jinagar (C.G.) 430006 Prof. Y.P. PATEL (HOD Department of physics)



This is to certify that the project report on "Automatic water dispenserusing arduino" has been carried out by VISHAKHA SINGH a student of Kalyan P.G. college Bhilai Nagar (C.G). She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

She has carried out the project under my guidance and this is her original work.

Place : Bhilai Date :

Guided by Mrs.Kiran Dewangan

(Assistant Professor Dept.of ET&T BIT DURG)

R N (Raghel)

Examined by

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Prof. Y.P. PATEL (HOD Department of physics)



**CERTIFICATE** 

This is to certify that the project report on "AUTOMATIC PLANT WATERING SYSTEM USING ARDUINO-MAS, CR" has been carried out by VIMAL KUMAR DEWANGAN a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

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(RN Eaghed)

Examined by

Guided by Ex: Mrs.Kiran Dewangan (Assistant Professor Dept.of ET&T BIT DURG)

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 49000s Prof. Y.P. PATEL (HOD Department of physics)

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<u>CERTIFICATE</u>

This is to certify that the project report on "SMART DUSTBIN WITH USING ARDUINO-MASTER " has been carried out by SNEHA CHOURASIYA a student of Kalyan P.G. college Bhilai Nagar (C.G). She has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University). She has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

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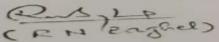
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Guided by Examined by Dr. NEELAM SHUKLA

(Assistant Professor Of kalyan College Bhilai)

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Prof. Y.P. PATEL (HOD Department of physics)

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# CERTIFICATE

This is to certify that the project entitled "Solar Lamp & Power Bank using Solar Panel" has been carried out by the student of Master of Science degree in Physics, is completed by

Shifa Mirza

of

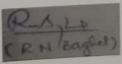
Kalyan PG Collage Department of Physics & Electronics

Under the guidance of

Dr. Neelam Shukla

(Asst. Prof. of Physics Department)

During the academic session 2020-21 towards partial fulfillment as per required of Hemchand Yadav University, Durg.



Guided By: Dr.Neelam Shukla (Asst.Prof. of Physics Dept)

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Examined By:

Head Dept. of Physics & Electronics Kalyan P.G. College Head of Department:

Prof.Y.P.Patel



# CERTIFICATE

This is to certify that the project report on **"AUTOMATIC PLANT WATERING SYSTEM USING ARDUINO-MASTER**" has been carried out by **RANJANA SONI** a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

RRALANANAN

(RN raghel)

Examined by

Guided by Exa Mrs.Kiran Dewangan (Assistant Professor Dept.of ET&T BIT DURG)

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Y Prof. Y.P. PATEL (HOD Department of physics)

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# CERTIFICATE

This is to certify that the project report on **WIRE-LESS NOTICE BOARD USING ARDUINO**" has been carried out by **SEWANT KUMAR** a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-(2021 towards partial fulfillment as per required of Hemchand yaday

**University** (Durg University). He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date :

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Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Prof. Y.P. PATEL

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Examined by Prof. Y.P. PATEL (HOD Department of physics)

Guided by Mrs.Kiran Dewangan (Asst. Prof. BIT DURG)

# DEPARTMENT OF PHYSICS AND ELECTRONICS



# **CERTIFICATE**

This is to certify that the project report on **WIRE-LESS NOTICE BOARD USING ARDUINO**" has been carried out by **SATEESH KUMAR** a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date : 13 | 8 | 202 |



Guided by Mrs.Kiran Dewangan (Asst. Prof. BIT DURG)

(RN Eaghel)

Examined by

hel) Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Prof. Y.P. PATEL (HOD Department of physics)

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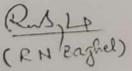
# CERTIFICATE

This is to certify that the project report on "WIRE-LESS NOTICE BOARD USING ARDUINO" has been carried out by ROSHANI SAHU a student of Kalyan P.G. college Bhilai Nagar (C.G). He has submitted the report during the academic session 2020-2021 towards partial fulfillment as per required of Hemchand yadav University (Durg University).

He has carried out the project under my guidance and this is his original work.

Place : Bhilai Date: 13/08/2021





Guided by Mrs.Kiran Dewangan (Asst. Prof. BIT DURG)

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Examined by Prof. Y.P. PATEL

(HOD Department of physics)

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# DEPARTMENT OF PHYSICS & ELECTRONICS KALYAN P. G. COLLEGE, BHILAI

# **CERTIFICATE**

This is to certify that, the work in the report entitled "To make a thorough study of warmed steam vaporizer and all accessories associated with it" by Priya Vaidya in partial fulfillment of Master of Science degree in PHYSICS at Kalyan P.G. College, Bhilai and by Hemchand Yadav University, Durg (CG) is an authentic work can be to by her under my supervision and guidance. The work is satisfactory to the best of my knowledge.

Place: Bhilai

Date: 13 8 21

Guided by Dr. Neelam Shukla

Dept. of Physics and electronics

Kalyan P.G. College, Bhilai

Head Dept. of Physics & Electronics Kalyan P.G. College inagar (C.G.) 490006 Head of Dept.

Prof. Y.P. Patel Dept. of Physics and electronics

Kalyan P.G. College, Bhilai

**External signature** 

Examined by

(RN Baghel)