

NEW HORIZON COLLEGE OF ENGINEERING

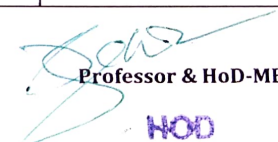
DEPARTMENT OF MECHANICAL ENGINEERING

III Sem PG (Machine Design) Internship Details

AY:2020-21

Code:19MMD34

SI No	USN	Student Name	Title of the Internship/ Mini Project	Guide Name
1	1NH19MMD01	BASAVA KUMAR K G	Comparison of Multi Leaf Spring and Taper Leaf Spring and Variable Thickness Optimization of Taper Leaf Spring	Prof. Chetan Kumar D S
2	1NH19MMD02	KAVITA V S	Capability and Strength Assessment of Speed Reducing Gear Unit	Dr. Srinath M K
3	1NH19MMD03	MOHAMMED FAROOQ YELLUR	High Cycle Fatigue (HCF) Analysis of Oil- Lube Supply External Hardware System	Dr. M S Ganesha Prasad
4	1NH19MMD04	PATIL DIVYESH KANTILAL	Numerical Investigation of Composite Monoleaf Spring.	Prof. Puneeth H V
5	1NH19MMD05	RAKSHITH K U	A Study on Static Analysis of Link Chain	Prof. Nareash K S
6	1NH19MMD06	V N TANUJA GORRE	Weight Reduction of VG Mounting Bracket	Dr. Aditi Raj

  
Professor & HoD-ME

HOD

Department of Mechanical Engineering  
New Horizon College of Engineering  
Bengaluru - 560 103.

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi, Karnataka-590 014**



**AN MINI PROJECT REPORT  
ON**

**“Comparison of Multi-Leaf Spring & Taper Leaf Spring  
and variable thickness optimization of Taper Leaf Spring”**

**Internship report submitted in partial fulfillment of the requirement for  
the award of the degree of**

**MASTER OF TECHNOLOGY  
IN  
MACHINE DESIGN**

**Submitted by**

**BASAVA KUMAR KG      1NH19MMD01**

**Under the guidance of**

**Prof. Chetan Kumar D.S**  
**Senior Assistant Professor**  
**Dept. of Mechanical Engineering**  
**NHCE**



**NEW HORIZON COLLEGE OF ENGINEERING**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**BANGALORE-560 103**

**2020-21**

# NEW HORIZON COLLEGE OF ENGINEERING

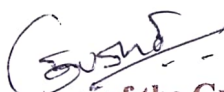
New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA


## DEPARTMENT OF MECHANICAL ENGINEERING




### CERTIFICATE

It is certified that the Internship work entitled "**Comparison of Multi-Leaf Spring & Taper Leaf Spring and variable thickness optimization of Taper Leaf Spring**" carried out by **BASAVA KUMAR KG (1NH19MMD01)**, the bonafide student of **New Horizon College of Engineering, Bengaluru**, in partial fulfillment for the award of **Master of Technology in Machine Design** of the **Visvesvaraya Technological University, Belagavi** during the year **2020-21**. It is further certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship Work prescribed for the **Master of Technology** degree.

  
Signature of the Guide  
**Prof. Chetan Kumar D.S**  
Senior Assistant Professor  
Dept. of Mechanical Engineering.  
NHCE

  
Signature of the HOD  
**Dr. M'S GANESHA PRASAD**  
Dean, Prof. and HOD-ME  
Dept. of Mechanical Engineering.  
NHCE

  
Signature of the Principal  
**Dr. MANJUNATHA**  
Principal  
New Horizon College of Engineering.  
NHCE

Name(s) of the student:

**BASAVA KUMAR KG**

University Seat Number:

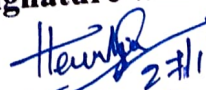
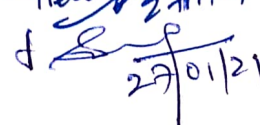
**1NH19MMD01**

**External Viva**

**Examiner**

- 1. Dr. Hemant Raju.T**
- 2. Dr. A. SUSIN JOSE**

**Signature with date:**

  
**27/11/21**  
  
**27/01/21**

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi, Karnataka-590 014**



**A MINI PROJECT REPORT  
ON**

**“CAPABILITY AND STRENGTH ASSESSEMENT OF  
SPEED REDUCER GEAR UNIT”**

**Mini project report submitted in partial fulfillment of the requirement for  
the award of the degree of**

**MASTER OF TECHNOLOGY  
IN  
MACHINE DESIGN**

**Submitted by**

**Kavita V S**

**1NH19MMD02**

**Under the guidance of**

**Dr. SRINATH M. K**  
**Associate Professor ME Dept.**



**NEW HORIZON COLLEGE OF ENGINEERING**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**BANGALORE-560 103**

**2020-21**



# NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

It is certified that the Internship work entitled “ **HIGH CAPABILITY AND STRENGTH ASSESSEMENT OF SPEED REDUCER GEAR UNIT**” carried out by **KAVITA V S (1NH19MMD02)**, the bonafide student of **New Horizon College of Engineering, Bengaluru**, in partial fulfillment for the award of **Master of Technology in Machine Design** of the **Visvesvaraya Technological University, Belagavi** during the year **2020-21**. It is further certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship Work prescribed for the **Master of Technology** degree.

Signature of the Guide

Dr. SRINATH M. K  
Associate Prof. - ME  
Dept. of Mechanical Engineering.

Signature of the HOD

Dr. M. S. GANESHA PRASAD  
Dean, Prof. and HOD-ME  
Dept. of Mechanical Engineering.

Signature of the Principal

Dr. MANJUNATHA  
Principal  
New Horizon College of Engineering.

Name(s) of the student:

KAVITA V S

University Seat Number:

1NH19MMD02

External Viva

Examiner

1. Dr. Hemant Raju T
2. Dr. A. Srin Jose

Signature with date:

27/1/21  
 27/01/21

# NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE


It is certified that the Internship work entitled "**High Cycle Fatigue (HCF) Analysis of Oil-Lube Supply External Hardware System**" carried out by **MOHAMMED FAROOQ (1NH19MMD03)**, the bonafide student of **New Horizon College of Engineering, Bengaluru**, in partial fulfillment for the award of **Master of Technology in Machine Design** of the **Visvesvaraya Technological University, Belagavi** during the year **2020-21**. It is further certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship Work prescribed for the **Master of Technology** degree.

  
Signature of the Guide

Dr. M S GANESHA PRASAD  
Dean, Prof. and HOD-ME  
Dept. of Mechanical Engineering.

  
Signature of the HOD

Dr. M S GANESHA PRASAD  
Dean, Prof. and HOD-ME  
Dept. of Mechanical Engineering.

  
Signature of the Principal

Dr. MANJUNATHA  
Principal  
New Horizon College of Engineering.

Name(s) of the student:

MOHAMMED FAROOQ  
YELLUR

University Seat Number:


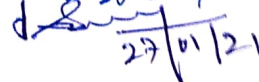
1NH19MMD03

External Viva

Examiner

1. Dr. Hemant Raju T
2. Dr. A. SUJIN JOSE

Signature with date:

  
27/01/21  
  
27/01/21

30-Dec-2020

Mohammed Farooq M Yellur

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Mohammed Farooq** has done his internship in **Genpact India Pvt Ltd, Bangalore**, from 26 Oct 2020 to 24 Dec 2020.

During his internship he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the project on time.

We wish him/her all the best for his/her upcoming career.

Warm Regards,

Acknowledged

**Human Resources**

---

**Mohammed Farooq Yellur**

This is a System Generated Letter and does not require any signature

Genpact India Pvt. Ltd.

Genpact India Private Limited 12A (Ground floor),  
Prakash Deep Building, 7, Tolstoy Marg, New Delhi-110001



# NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

It is certified that the Internship work entitled **"NUMERICAL INVESTIGATION OF COMPOSITE MONO LEAF SPRING"** carried out by **DIVYESH K PATIL (1NH19MMD04)**, the bonafide student of **New Horizon College of Engineering, Bengaluru**, in partial fulfillment for the award of **Master of Technology in Machine Design** of the **Visvesvaraya Technological University, Belagavi** during the year **2020-21**. It is further certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship Work prescribed for the **Master of Technology** degree.

*H. V. Puneeth*, 20/11/2021

Signature of the Guide

PUNEETH H V

Assistant Professor  
Dept. of Mechanical Engineering.

*M S*

Signature of the HOD

Dr. M S GANESHA PRASAD

Dean, Prof. and HOD-ME  
Dept. of Mechanical Engineering.

*Manjunatha*

Signature of the Principal

Dr. MANJUNATHA

Principal  
New Horizon College of Engineering.

Name(s) of the student:

DIVYESH KANTILAL PATIL

University Seat Number:

1NH19MMD04

External Viva

Examiner

1. Dr. Hemant Raju T
2. Dr. A. SUDIN JOSE

Signature with date:

*Hemant* 21/11/21  
*A. Sudin Jose* 27/01/21



**TO WHOM IT MAY CONCERN**

Date: 18/01/2021

Dear sir/Madam,

"SOPAN Institute of Engineering & Design" – We pleasure to share that we are South Gujarat's First (SATC) SolidWorks Authorized training Centre. & Autodesk Authorized Training centre. Our institute has an exclusive team of training specialist to cater the demands of ever growing engineering industry. We also being an engineering solutions provider. Our vision is "to make our students profitable knowledge". We can work closely with our students even after the training is made to ensure that they benefit from the product or service taken from us. We build confident, mutual trust and comfort for the students which enable quick results.

We have to inform you that "DIVYESH KANTILAL PATIL" has completed his Course (SolidWorks Expert) during 15<sup>th</sup> Oct, 2020 to 15<sup>th</sup> DEC, 2020 at our Surat Branch.

If You have any question feel free to call us on 9725206395



Regards,

SOPAN Institute of Engineering & Design

Surat, Gujarat.

HEAD OFFICE : 1st Floor, Kubb's Corner, Opp. Kailash Sweet, Timaliyawad, nanpura, Surat-395001

BRANCH OFFICE : 210, 2nd Floor, Dev castle, Opp. Radhe Krishna Complex, Isanpur, Ahmedabad-382443

# NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE


It is certified that the Mini-Project work entitled "**A STUDY ON STATIC ANALYSIS OF LINK CHAIN**" carried out by **RAKSHITH K U (1NH19MMD05)**, the bonafide student of **New Horizon College of Engineering, Bengaluru**, in partial fulfillment for the award of **Master of Technology in Machine Design** of the **Visvesvaraya Technological University, Belagavi** during the year **2020-21**. It is further certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship Work prescribed for the **Master of Technology** degree.

  
Signature of the Guide

Mr. Naresh K S  
Assistant Prof.  
Dept. of Mechanical Engineering.

  
Signature of the HOD

Dr. M S GANESHA PRASAD  
Dean, Prof. and HOD-ME  
Dept. of Mechanical Engineering.

  
Signature of the Principal

Dr. MANJUNATHA  
Principal  
New Horizon College of Engineering.

Name(s) of the student:

RAKSHITH K U

University Seat Number:

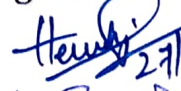
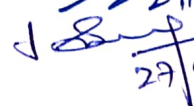
1NH19MMD05

External Viva

Examiner

1. Dr. Hemant Rajori T
2. Dr. A. SUDIN JOSE

Signature with date:

 27/11/21  
 27/01/21

# NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

It is certified that the Internship work entitled "WEIGHT REDUCTION OF VG MOUNTING BRACKET" carried out by V N TANUJA GORRE (1NH19MMD06), the bonafide students of New Horizon College of Engineering, Bengaluru, in partial fulfillment for the award of Master of Technology in Machine Design of the Visvesvaraya Technological University, Belagavi during the year 2020-2021. It is further certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship Work prescribed for the Master of Technology degree.

Signature of the Guide

Dr. Aditi Raj

Asst. Professor-ME  
Dept. of Mechanical Engineering.

Signature of the HOD

Dr. M S GANESHA PRASAD

Dean, Prof. and HoD-ME  
Dept. of Mechanical Engineering.

Signature of the Principal

Dr. MANJUNATHA

Principal  
NHCE

Name(s) of the student:

V N TANUJA GORRE

University Seat Number:

1NH19MMD06

External Viva

Examiner

1. Dr. Hemant Raj KT
2. Dr. A. SUTIN JOSE

Signature with date: