SINHGAD TECHNICAL EDUCATION SOCIETY'S®

Sinhgad Institutes

SMT. KASHIBAI NAVALE COLLEGE OF ENGINEERING®

Approved by AICTE Vide F. No. 740-89-004 (NDEGAPR/ET/2000) &
Affiliated to Savitribai Phule Pune University ID. No. PU/PN/ENGG/155/2001
Accrediated by NBA & NACC
Recognized by UGC under Section 2 (f) & 12 (B) of UGC Act 1956

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PROF. M. N. NAVALE
M.E. (Elect.), MIE, MBA.
FOUNDER - PRESIDENT

DR. (MRS.) SUNANDA M. NAVALE
B. A., M. P. M., Ph.D.
FOUNDER - SECRETARY

DR. A. V. DESHPANDE
B. E., M. E. (Computer Engg.), Ph. D.
PRINCIPAL

Date: 16/01/2023

To,
The Director
National Assessment and Accreditation Council (NAAC)
P.O. Box No. 1075, Nagarbhavi,
Bengaluru- 560072

Subject: Proofs of Metric No. 2.5.2

Reference: Metric No. 2.5.2: Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

Dear sir/Madam,

As per said subject kindly find below the index of File Descriptions/Documents for your valuable information.

INDEX		
Sr. No.	**File Descriptions /Documents**	**Page No.**
1	**A) AY 2021-2022 for Mechanical Department**	
	i) Student applications cum subject teacher remarks	2-2
	ii) Answer sheets of the students	3-13
	iii) Recommendation for correction in mark	14-14
	B) AY 2021-2022 for MBA Department	
	i) Student application cum subject teacher remark	15-15
	ii) Answer sheet of the student	16-27
	iii) Recommendation for correction in mark	28-28

Thanking You,

Smt. Kashibai Navale College of Engineering Pune-41.

Principal
(Dr. A. V. Deshpande)

PRINCIPAL
Smt. Kashibai Navale
College of Engineering
Vadgaon(Bk.), Pune-41

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Smt. KashibaiNavale College of Engineering
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S.No. 44/1, Vadgaon (BK), Off. Sinhgad road, Pune 411041
Department of Mechanical Engineering

Sinhgad Institutes

To,

Subject Teacher,

Sub: Regarding change in Unit Test I/Unit Test II/ Prelim Marks

Respected Sir/madam,

I, Avishkar Pangavhane Student of ~~First Year~~ TE, division 4 Roll No 479 appeared UT-I/UT-II/Prelim examination of Subject CAE on 02-04-22

The marks secured by me in the said exam are 22 .I have grievance related to marks secured in the said subject examination.

This is my kind request to subject teacher to kindly address my grievance related to marks secured in the said subject examination.

Name ~~and~~ Sign of the student
(Avishkar Pangavhane

Remark of Subject Teacher: Marks change

Subject Teacher

Exam Coordinator

Smt. Kashibai Navale College of Engineering Pune-41.

Roll No- 479

METRO

शाळेचा शिक्का

Name- Avishkar shahikant Pangavhane

22 +2 = 24

HOLLOW CRAFT STICKER

Centre No.: केंद्र क्रमांक

बारकोड ह्या चौकटीत चिकटवा.
Paste the Barcode Sticker here

Seat No. बैठक क्रमांक (in Figure) (अंकात)

(in Words) (अक्षरात)

Candidate's Signature परीक्षार्थीची सही

Supervisor's Signature पर्यवेक्षकांची सही

Hollow Craft Sticker

Hollow Craft Sticker

बारकोड संबंधी सूचना

१) विद्यार्थ्यांनी प्रथम पर्यवेक्षकाकडून बारकोड स्टिकर घ्यावे.
२) बारकोड वरील बैठक क्रमांक व विषय बरोबर असल्याची खात्री करून घ्यावी.
३) बारकोड स्टिकर त्यासाठी दिलेल्या जागेमध्ये घडी पडू न देता चिकटवावा.
४) बारकोडवर अन्य कोणतेही लिखाण करू नये. केल्यास परीक्षेतील गैरमार्गाचा प्रकार मानन्यात येईल.
५) उत्तर पत्रिकेच्या मुखपृष्ठवरील अन्य माहिती, विहित जागेत लिहावी.

SSC | HSC

फक्त UID कोडसाठी जागा
(परीक्षक वापरासाठी)

SSC | HSC

Subject / विषय :	CAE
Paper पेपर :	
Date दिनांक :	2/5/22
Language of Answer / उत्तर लेखनाची भाषा :	

Supplements attached

Main Answer Book		No. of supplements		Total in Figure
1	+		=	

Specific remarks of centre conductor regarding malpractices (in Red Ink)
उमेदवारांकडून घडलेल्या गैरमार्गासंबंधी केन्द्र संचालकाचे अभिप्राय (लाल शाईमध्ये)

	Marks in Figure	Marks in Words	Signature	Appt. No.
Examiner				
Moderator				
Chief Moderator				

Q. No.	Examiner	Moderator	Chief Moderator	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
Total in Figure	22			
Total in Words				

Signature				
Appt. No.				

Q.No.					Q.No.					

प्रश्न क्र. Q.No. Q-1

1) Given:-

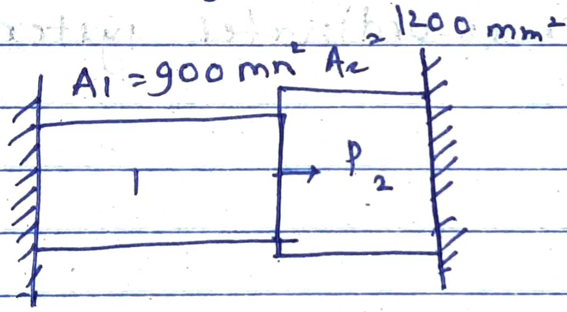
$E_1 = 70 \times 10^9 N/m^2$

$E_2 = 200 \times 10^9 N/m^2$

$L_1 = 200m$ $L_2 = 300m$

$P = 300KN$

The formula for stress develop in the diagram as shown in fig



$\therefore$ stress = $\frac{P}{A}$ --- in in 1st dia.

$\therefore s = \frac{300}{900}$

$= 0.3$ stress in 1st dia,

~~0~~

$\therefore$ stress produce in dia 2.

change 2 marks.

$s = \frac{P_2}{900}$

$= E = 200 \times 10^9 N/m^2$

Q.No. | | | | | Q.No. | | | | |

प्रश्न क्र.
Q.No.

Displacement in the dia.

Q-1 A) Tranuformation of global co-ordinate syetem to natural co-ordinate syetem.

1) In this co-ordinate syetem there are some noms that will given to the thi co-ordinatel syetem.

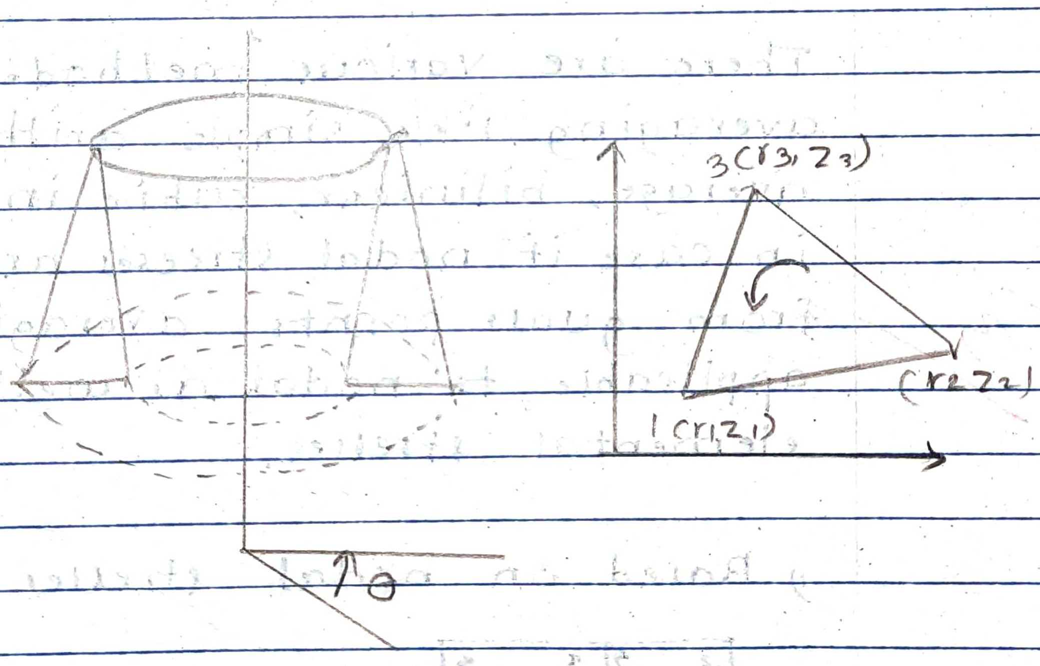
2)

Q.No. | Q.No.

प्रश्न क. Q.No. Q-5

c) → Axi-symetric element are special two-diamensional element which are useful when both geometry and loading analyzed.

r denotes co-ordinates in radial direction while z denoted co-ordinates in axial direction. Let u_r denote displacement in radial direction and U_z denote displacement in vertical direction. due to axi-symmetric deformation behaviour tangential displacement u_t is equal to zero.



4

a) Displacement function

$$U_r = a_1 + a_2 r + a_3 z$$

$$U_z = a_4 + a_5 r + a_6 z$$

Q.No.						Q.No.					

प्रश्न क्र. Q.No. Q-5

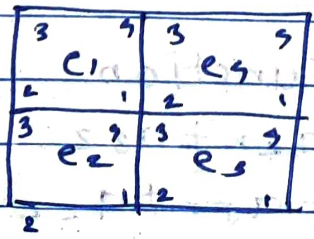
b] → Post processing techniques

finite element analysis is an approximate technique the level of accuracy of the displayed results could be 25% 60% or 90% with respect to the experianced data.

Q-3-4] Average and un-average stresses

There are various methods for stress averaging, like simple arithmetic average, bilinear, cubic interpolation in case if nodal streeses are obtained from guass points, averaging is applicable to nodal as well as elemental stresses.

1) Based on nodal stresses



output at nodes of each element is available. Average stress at node is summation of stress at common node shared by different

σ average $= 0.25(\sigma_1'' + \sigma_2^{e} + \sigma_3'' + \sigma_5'')$

4.) where e_1, e_2, e_3 are the elements surrounding the node.

Q.No.					Q.No.					

प्रश्न क. Q.No. Q-7

1]→ NVH concept

a) Basically the NVH term is known as Noise vibration and the hardness.
b) The main noise produce by the bikes and spred the noise pollution.
c) The second main point is the costomer satisfaction, because people needs sound in exaust, cars,
e) People don't like the sound of closing door, but they like the sound of cars bikes
f) The government nome are also the accepts that on the noise of the car and bikes, the noise cant come on the 7.5 m is the basic noms of government.
G) In the industry this noise pollution term is known as the NVH term the H means the roughness of the sound and the frequency produce by the machines.
h) But they use the ear buds in the industry then the noise and vibration frequency becomes very less

3

Q.No.						Q.No.					

प्रश्न क्र. Q.No. 9.5

Campare liniear and non-liniear Analysis

A] →

	Liniear problem	Non-liniear problems
1) load displacement	Displacement vary liniearly with applied load. thus stifness is constant change in geometry	It is non-linear, thus stifness varies as a function load.
2) stress strain relation	liniear up to the proportional / elastic limit properties such as Youngs modulus are easily available.	It is nonliniear function of stress-strain and time there are difficult to obtain and requires lot of additional experimental material testing.
3) super-position	Applicable, that is if a 1N force causes x unit of displacement, then 10 N magnitude force 10x displace-	Not applicable Here.
4) Reversability	The behaviour of structure is fully reversible upon the removal of externd	The final state after removal of load is different from the initial

4

Q.No.						Q.No.					

प्रश्न क्र. Q.No. Q-8

c] → FEA for Acoustics.

There are two types of Acoustic problem one encounter in practic

a) System containing unconstrained media such that acoustic waves are never reflected back toward the source

b) Acoustic media is contained within physical boundaries like cavities, both the probleme are modelled numerically

c) There two are widely used numerical method for acoustic Analysis finite element method and Boun element method

3

f) The BEM was originally develop to predict the effect of vibration on finite acoustic.

e) The FEM element modeling concept has also been extended to ifinite acoustic media by co

$$(K_a - \omega^2 M_a + J\omega C_a) P = -J\omega s q$$

Do not write your name or seat no. below this line

Q.No.						Q.No.					

प्रश्न क्र.
Q.No.

Q- 7

c] → The following are some softwares for manufacturing process like casting and sheet metal application,

1) The catia is software used for it
2) Unisurf
3) IGES
4) AUTOCAD
5) Vs
6) Vs
7) STEP
8) PRO-E
9) Ansyits

these are some softwares are used for the casting and sheet metal application. in mechanical Industry.

2

Do not write your name or seat no. below this line

Q.No.						Q.No.					

प्रश्न क.
Q.No. Q-5

c) free vibrations.

The particles are move freely in the object or produces the vibration is known as free vibrations.

There are two types of free vibration:-

1) Damped vibration:- In this damped vibration there is a energy loss

2) Undamped vibration:- In this ~~d~~ undamped there is No loss of energy.

Example:-

1) Pendulum of watch moves and make vibration

2) Guitar string make free vibration.

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S.No. 44/1, Vadgaon (BK), Off. Sinhgad road, Pune 411041
Department of Mechanical Engineering

RECOMMENDATION OF CORRECTION OF MARKS

Date: 4-2-22

Academic year: 21-22 Examination: Unit Test I/Unit Test II/ Prelim

Year: Semester: II

Sr. No.	Name of Students	Roll no. /Division	Name of Subject	Marks before grievance submitted by student	Marks after addressing grievance	Recommendation Change/no change
1	Avishkar Pangavhane	479	CAE	22	24	change.
2						
3						
4						

Shinde.
Internal Exam Coordinator

HOD

Assistant Professor & Head
Dept. of Mechanical Engg.
Smt. Kashibai Navale College
of Engineering, Pune - 41.

Smt. Kashibai Navale College of Engineering * Pune-41.

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S.No. 44/1, Vadgaon (BK), Off. Sinhgad road, Pune 411041
Department of Management

To,

Subject Teacher,

Sub: Regarding change in Internal exam Marks

Respected Sir/madam,

I, Shrutika Tadka Student of First Year, Roll No 17 appeared for internal examination of Subject PFP on 20-7-22

The marks secured by me in the said exam are 21. I have grievance related to marks secured in the said subject examination.

This is my kind request to subject teacher to kindly address my grievance related to marks secured in the said subject examination.

Name and Sign of the student
(Shrutika Tadka)

Remark of Subject Teacher:

Subject Teacher
Dr. Sanket L. Charkha

Navale College of ... Dept. of ... Vadgoan (Bk.), Pune

Head of Department
HEAD
Dept. of Management Studies
Smt. Kashibai Navale College of Engg
Vadgaon (Bk.), Pune - 411 041.

Name - Shrutika L. Tadka Exam-2022
Major Spe: Finance
Sem - II
Subject - Personal Financial Planning
Date - 20/07/22

Q.1.

1. The underwriter has to take up
→ B. the agreed portion of the unsbscriped Part.

2. Investment decision making traditionally consists of two steps.
→ D. Security analysis and portfolio management.

3. Financial assets
→ B Money market

4. If an investor states that Intel is overvalued at 65 times, he is referring to.
→ B. Dividend yield.

5. The most popular type of investment company is a
→ B. Mutual Fund

6. A group of mutual funds with a common management are known as.

→ C. Fund Families.

7. Gross Investment bankers are compensated by.

→ B. Commissions paid by the buyers of the security

8. All new issues being offered for public sale are registered with

→ A. SEBI.

6

Q2.

1. Define EMI

→ ① EMI stands for equated monthly installment. EMI is the amount which has to be paid to the money lenders with the interest applied.

② The interest which is applied on the EMI is basically on the principle amount and the interest amount is directly proportional to the rate of interest and the period.

③ EMI is calculated by multiplying the number of months into principle amount plus interest. EMI is very convienent tool to buy the things which you can't buy with the full paid amount at the same time.

④ EMI's are of two types.
i) Short term EMI's
ii) Long term EMI's.
The short term EMI's are preferably taken for the small goods like electronic items, furniture, etc. Long term EMI's are generally taken for car or house loans etc.

⑤ EMI's are always benefitial for both the parties as the lender earns the interest and the borrower receives the time period to pay off.

4. Explain the term liquidity & give its importance in terms of Indian financial system.

① Liquidity ~~is referred~~ as a freeflow cash and ~~cash~~ equivalent. Circulation of the actual money that goes into the system.

② Printing the currency notes is the key way to boost the liquidity. Along with that, maintaining the repo rates & reserve repo rates also, ~~affects~~ liquidity in the market.

③ Liquidity in the indian financial systeme improves overall stability in economy & also prevents recession in the market.

④ Liquidity in the market ensures smooth flow of currency exchanges, emports &

export in the market. interested payments. bond issues, etc,

5. GST implementation in the year 2018 again affect the liquidity in the market but this time it is in a small scale but also improved the overall tax system in the near future by various reforms in the GST structure.

6. In the year 2016, demonitization was announced by P.M. ~~Na~~ Mr. Narendra Modi by central govenment which affect the liquidity negatively. All the current running currency notes was absorbed by ~~7~~ the banks.

7. Therefore, the liquidity in the economic system ensures smooth ~~growth~~ economic growth.

Q3. Explain the three Financial statements used in PFP, which ratios are used in PFP?

→ Introduction

Personal financial Planning includes planning of income earned or received by an individual to reduce the taxes by applieing appropriate deductions, exemptions, allowances for the reduction of the tax payment. This plan is done by every individual.

- Componants of Financial Planning:

There are six componants of financial Planning.

1. Financial Position
2. Investment & accomodation goals.
3. Insurance Planning
4. Tax Planning
5. Retirement Planning
6. Estate Planning.

1. Financial Position:

Financial position is decided by the Funds invested by the person or organisation More the amount invested it will give a good position to the investor. Deduction is given to investment in income tax return u/s 80 C. ~~De~~ amount upto 1,50,000/- is deductible under income tax section 80 C.

2. Investment and accomodation OF Goal:

A goal should always maintained by everyone. Investors should invest their money into a good return giving company. Investment can be done in mutual funds, bonds, debentures, equity shares, IPO's, preferential shares, etc.

3. Insurance Planning

By the view of incometax amount invested in Life Insurance corporation of India (LIC) are deductable under Section 80C. Medicle insurance insurance is deductable under section 80D. The limit for the medical insurance is Rs. ~~20~~25000 in respect of self & Rs. 50000 in Respect OF parents.

4. Tax Planning:

Tax planning should be done throughout the whole year, so that the burden of tax will not levied at the end of the financial year.

A person should invest his money into LIC, donations, Mutual Funds, etc.

1. Investments For Tax Planning -

(1) A taxpayer can invest his money into LIC under section 80D.

(2) A taxpayer can donate some money to a charity or an educational institution.

③ They can invest in Mutual Funds, ESI's.
④ A taxpayer can take deduction of his children's education fees u/s 80 D.
⑤ Bank interest is added in income and later on deducted from the deductions u/s 80 TTA.
⑥ Rebate is given as per new tax plan upto Rs. 12,500/-.
⑦ Tax slab ~~rates~~ are -

1.	0 - 2,50,000	NIL
2.	2,50,000 - 5,00,000	5% on amount (5Lkh - 2.50Lkh)
~~3~~		Rebate till 12,500/-
3.	upto 10,00,000	20% (-5,00,000) + 12500
4.	upto 30,00,000	1,12,500 + 30% (-10,00,000)

Tax rate is nil upto 2,50,000/- income. 5% tax will be charged from the amount crossing ~~from~~ 2,50,000/- till 5,00,000/-. If the taxable amount is below 5Lkh or till 5Lkh their is rebate on tax till 12,500/-

Slab rate for tax crossing Rs. 5Lkh upto Rs. 10,Lkh. tax rate is 20% plus Rs. 12,500. Rs. 5Lkh will be reduced from the taxable income. When the taxable amount crosses 10,00,000/~~Lkh~~ upto 30,00,000/- the slab rate is 30% plus Rs. 1,12,500/-. Rs. 10,00,000 will be reduced.

⑤ Retirement Planning:

Retirement Planning should be done for the safe after retirement life. Investments in the mutual funds should be done. Amount should be invested in fixed deposits. Senior cityzens receive pensions from the government they should plan for their future.

Retirement planning should be done for the good retirement life, for healty life, etc.

⑥ Estate Planning:

Estate Planning means transferring any residensial or bussiness commodity for the further nominee. If a person owns a house or a property dies suddenly or after a particular age, if his estate planning is not done then the property will be on hold.

If the person having any loan or morgage then the propery can undergo to the bank or any other financial institution. For preventing this, property should ~~at~~ transferred to further person.

Q4.

What do we mean by ~~tax~~ savings and how can it be taxed? Possible sources? Discuss the various methods of floting the new issue in India with some recent ~~ex~~amples.

→

• Introduction

• Tax :

Tax is a specified portion ~~deducted from~~ ~~our~~ we pay to government on behalf of the income. Tax is deducted ~~on every~~ or ~~the~~ charged on every item sold into the market or income earned by every individual.

There are two types of taxes.

i) Direct Tax

ii) Indirect Tax

(i) Direct Tax :

The tax which is deducted directly from the product at the time ~~o~~ it is sold ~~it~~ into the market. For e.g. Goods + Service Tax (GST), Value Added Tax (VAT), Service Tax, etc.

(2) Indirect Tax :

This tax is later on paid to the government in the form of returns. For e.g. Income tax Returns, Tax deducted at sources, Tax collected at sources, etc.

- Tax Saving :

Tax is deducted by every individual, HUF, proprietory, joint holder, ~~org~~ partnership, LLP, Pvt, etc. income. After deduction of tax every authorigtiy who is having a business or income ~~from~~ by any means they has to file returns.

Government is providing deductions for saving the tax payment. The respective deductions are reduced from the gross taxable Income. Government is providing deductions u/s. 80C, 80D, 80CCC, 80CCD, 80CCDE, 80G, 80DDE, 80DE respectively.

- How can it be taxed ?

Q.5.
→

Mutual Funds:
→ Mutual funds are the funds which are invested in the virtual mode. ~~I~~ funds can be invested for the long term period or for short period. Investor can ~~ti~~ withdraw his amount anytime ~~he~~ wanted. Interest or divident is received on the basis of fluctuating market rates.

Any person completing his age 18 years and having pan & Adhar card can invest in mutual funds. Mutual Funds are subject to market risk. Reading of all terms & conditions is must while investing in mutual funds.

• Advantages of Mutual Funds:

1. ~~I~~ Investment in mutual fund gives high returns.
2. Person can invest in any company or financial institutions funds.
3. Investment in mutual funds starts with minimum ~~of~~ amount ~~of~~ 500/- Rs.
4. ~~Maximum~~ their is no limit for maximum amount of investment.
5. ~~The~~ Considering stock market mutual funds is a safer place for investing money.

(6) We can get our basic invested amount back, even if market crosses the below limit.

(7) Investment in SIP can be done on monthly basis.

(8) The amount will go ~~Rs~~ into SIP on installment basis.

(9) You can choose any installment option

(10) Installments are- minimum 11 monts to maximum 10 years or above.

(12) Through SIP you can get chance to win bonus or good divident percentege.

(13) Company can offer bonuses, or good percentege of interest.

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Department of Management

RECOMMENDATION OF CORRECTION OF MARKS

Date: 20-7-22

Academic year: 21-22 Examination: Internal

Year: I st Year MBA Semester: II

Sr. No.	Name of Students	Roll no. /Division	Name of Subject	Marks before grievance submitted by student	Marks after addressing grievance	Recommendation Change/no change
1	Shrutika Tadka	17	PFP	21	21	No Change
2						
3						
4						

Smt. Kashibai Navale College of Engg. ★ Pune - 41. ★ Vadgoan (Bk.), Dept. of Management Studies

Subject Teacher

HOD

HEAD
Dept. of Management Studies
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Vadgaon (Bk.), Pune - 411 041.