

To The Vice-Chancellor VIT Bhopal University

27/07/2022

Sub: Letter of Consent

Sir,

I Pradeep Singh Shaktawat father of Chakshu Shaktawat reg. no. 20BCE10376 student Computer science & engineering (core) course at VIT Bhopal University and resident Neemuch (M. P.) do hereby permit my daughter to attend the student experimental learning programm to be conducted at Bangalore between 12th September 2022 and 16th September 2022.

I undertake that:

- 1. I am fully aware of the COVID-19 pandemic and the risks associated with travelling to the city during the programme days.
- 2. I assure full responsibility for the safety, discipline and code of conduct during the stay, programme proceedings and travel for my son/daughter/ward during the entire duration of the programme. We understand that it is our sole individual responsibility and shall not hold the VIT Bhopal University responsible in any way for this.
- 3. I recommend my daughter/ward to stay at University recommended venues / local guardian's or relative's houses. (This is only for girl students if you have recommended a local guardian's or relative's house; please fill up details for 4).
- 4. The details local guardian's / relative's house where your daughter/ward will be staying during the programme.

Name	Mr. Manish Dube
Address	Nitesh Flushing Meadows, Block D Flat no. 1002, Seeghehalli, Bangalore, Karnataka
Mobile Number	83034 86651
Land Line / Alternate	
Mobile Number	
Email Id	
Landmark	

- 5. I would ensure that my son/daughter/ward shall follow all the guidelines, and SOPs given by the University for the programme.
- 6. I assure you that my son/daughter/ward will attend all the sessions organized by the University with proper discipline.
- 7. I assure you that my son/daughter/ward will strictly follow all SOPs of VIT Bhopal University experiential learning.
- 8. I assure you that my son/daughter/ward will not indulge in any unethical activities, violate the rules and regulation which will defame the name of VIT Bhopal University failing which we accepts the University action on the same.

Name: Pradeep Singh Shaktawat	(Qpd)	
Mobile:	Signature of the Parent	



To The Vice-Chancellor VIT Bhopal University

27/07/2022

Sub: Letter of Consent

Sır,		
I	Pradeep Singh Shaktawat	father/mother ofChakshu Shaktawat
		, student of SCSE (core) course at VII
_		of Neemuch (M. P.)do hereby permit my
daughte	r/son/ward to attend the	student experiential learning programme to be
conduct	ed at Pune between 5 th Sent	tember 2022 and 9 th Sentember 2022

I undertake that:

- 1. I am fully aware of the COVID-19 pandemic and the risks associated with travelling to the city during the programme days.
- 2. I assure full responsibility for the safety, discipline and code of conduct during the stay, programme proceedings and travel for my son/daughter/ward during the entire duration of the programme. We understand that it is our sole individual responsibility and shall not hold the VIT Bhopal University responsible in any way for this.
- 3. I recommend my daughter/ward to stay at University recommended venues / local guardian's or relative's houses. (This is only for girl students if you have recommended a local guardian's or relative's house; please fill up details for 4).
- 4. The details local guardian's / relative's house where your daughter/ward will be staying during the programme.

Name	Vignahar Prasad
Address	09/ Vignahar Prasad, Mohan Wadi, Pune
Mobile Number	83185 67207
Land Line / Alternate	
Mobile Number	
Email Id	
Landmark	

- 5. I would ensure that my son/daughter/ward shall follow all the guidelines, and SOPs given by the University for the programme.
- 6. I assure you that my son/daughter/ward will attend all the sessions organized by the University with proper discipline.
- 7. I assure you that my son/daughter/ward will strictly follow all SOPs of VIT Bhopal University experiential learning.
- 8. I assure you that my son/daughter/ward will not indulge in any unethical activities, violate the rules and regulation which will defame the name of VIT Bhopal University failing which we accepts the University action on the same.

Name: Pradeep Singh Shaktawat	(Qp)
Mobile: 9425078852	Signature of the Parent

Case Study-2

HUM1002

Emotional Intelligence – E11+E12

Submitted by: Chakshu Shaktawat

Reg. No. 20BCE10376

Question 1: How will you define and rate Mr. Srivastava's emotional intelligence by applying Goleman's model of EI?

As a CEO, Mr. Manohar Srivastava can apply emotional intelligence to achieve self-awareness, objectivity and equality, all in the name of improving results, workplace culture and employee fulfilment.

Goleman breaks down EQ into five components:

1. Self-awareness

Emotions can affect team for a CEO. When Mr. Srivastava was newly appointed as a CEO for the newly acquired southern banking institute, he had his own methods and strategies which he felt highly about and we could see those traits in that first meeting he set up with all his employees in the bank. We could say this because of this statement he said, "I expect total dedication. If you cannot commit to our new vision and strategies, then this is not the right place for you. Commitment starts by being on time."

He had strictly scheduled the meeting, and when the turnover wasn't what he expected it to be, he got a little agitated with the employees and even ordered the staff to shut the door for late comers. This shows he was really affected with all the events; he wasn't comfortable with himself at that moment.

This could have been easily being resolved if Mr. Srivastava had been open towards staff on the first day. Then he could have implemented the punctuality as the basic requirements for the staff.

2. Self-Regulation

Mr. Srivastava's impulsive and irrational order of closing the door for employees who were late, made the people under him not to trust him. An emotionally charged environment is usually fraught with unresolved conflicts. It feels tense and distracting. The employees wouldn't have felt they could contribute without fear of reprimand. Calm in the face of adversity is not a natural response, or something you're born with. Self-regulation is a skill Mr. Srivastava need to practice and there are great rewards if he could master it. He became approachable, able to deal with conflict, create a nurturing environment and lead by reliable example.

3. Motivation

Goleman's third component refers to motivation for enjoyment, rather than money or a promotion.

By the case study, we could see that the newly acquired banking institution has a long standing reputation as a friendly institution with traditional values, and it prides itself

on its exemplary customer service. The current staff has even prepared a comprehensive package outlining the bank's vision and key customer success stories that demonstrate their commitment to exemplary service and low customer and employee turnover.

This all shows how they were motivated to work for the bank and are really happy working there. It has been disrupted when Mr. Manohar tried implementing his own strategies and methods which could have made employees demotivated to work there and had led to increase in turnover of about 25 percent and involuntary turnover was up 10 percent. Previous customer numbers were decreasing and customer complaints were increasing.

What is motivation for enjoyment? You need to:

- Understand why you are passionate about your job
- Realise how much you want to lead
- Have an optimistic outlook.

Even in the face of a bad day, you can still find the silver lining, feel energised to fix problems and determined to cheer the people around you onto the next success. It's self-motivation. You're doing it for you, to fulfil your personal goals and needs, to drive higher performance.

4. Empathy

If Mr. Srivastava can understand the emotions of others and relate to them, he could have seen problems from all perspectives and make objective decisions. Empathy defuses bias.

Mr. Srivastava met with the executive team and outlined the strategies, goals, numbers, and deadlines. A meeting was held with senior staff members responsible for reporting progress. Market growth numbers were up, and new business numbers were increasing. This shows how much he is goal oriented he is. The day he could have made everyone a little comfortable with him around the hospital with little empathy, instead of becoming a little intimidating

Being empathic means you're a good listener and interpreter, attuned to body language and expressions.

An empathic manager is considerate, balanced, and fair.

Applying empathy gives you a superpower. You can read what your employees need from you – when they need challenging, when they need constructive feedback, and when they need more training.

5. Social Skills

It's important to build a strong rapport with your team.

Not only is it part of good leadership, but it's also essential to boosting staff productivity and increasing loyalty.

Mr. Srivastava lack in social skills, which made him less approachable. When the quarter report result came, he asked for inputs and everybody were quite as they were not comfortable to speak in front of him about the situation.

Having solid social skills such as active listening, verbal communication, nonverbal communication, leadership and persuasiveness enables you to connect with your team.

By these factors we could say that Mr. Srivastava's emotional intelligence doesn't have that ten on ten rating and he lacks most of the features of an Emotionally intelligent person, therefore he need to up his EQ with the help of Goleman's model we discussed.

Design for Plastic in Electric Vehicles

DSN2096 – Engineering Design – B13

Submitted by: Chakshu Shaktawat

Reg. No.: 20BCE10376

OBJECTIVE :

Advances in materials have an important effect derign of engineering products. Material tech is one of those areas of clesign that early remains state:

Por the continual search of lighter, cheaper, stronger longer-lading materials for we in engineered product. This case study looks at one such example use of plastics in passenger cars. cars will only self perform well and look good. The industry is because of this intense competition, more quickly - one of the best example the we of plastic material

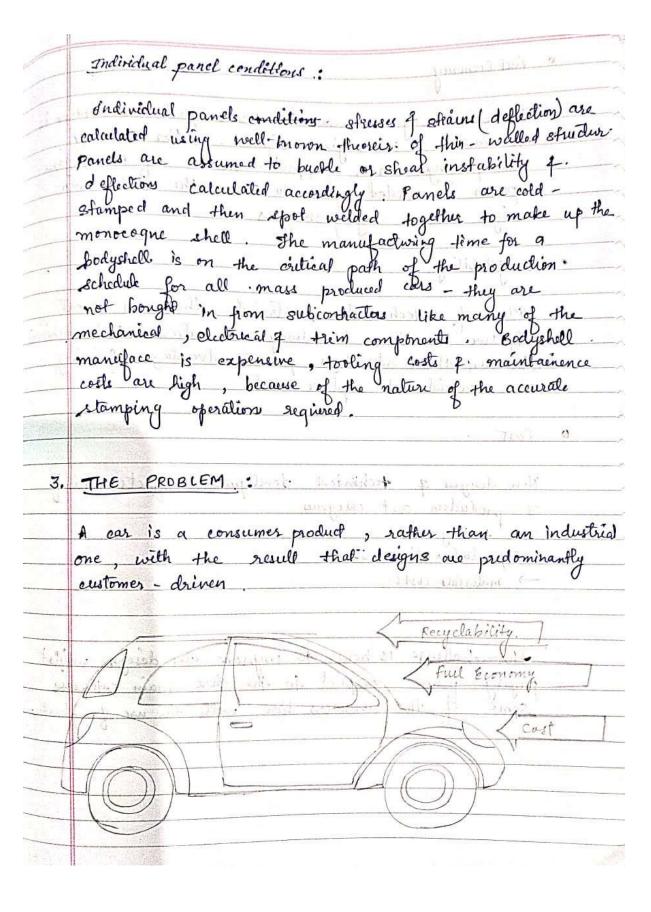
2. CAR DESIGN

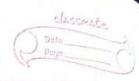
modern production car starts with arrodynamic requirements of the bodyshell space constraints of the engine has monocogne design Bodyshells, in which shell floor has a secessed hump

to house the transmission & drive shaft

arrangement is for a transverse mointed frond wheel drine, ploor is flat Uses good carbon steel, tensile strength of SOOMN/m2al.

Thickness. from 0.65 mm to 1.55 mm - It should be crash suistance





· fuel Economy

The cases way to reduce a eas's fuel consumption is to make ear engine lighter. For an ang four passenger car, approx. 60% of the engine power is needed just to more the car's own weight without any passengers

More of a technical constraints them an overt objective. There is always a balance to be achieved between the advantages of using new materials to replace steel.

• Cost

New designs of techinical developments affects mainly cost calegories Top ling costs

- production time costs !

-> materials costs.

The challenge is how to improve car design whilst paying proper suspect to the thre main categoris some of the answers hies with the use of plastice

4. Design with plastic:

Plastics designed for use in engineering applications, commonly called engineering plastics, are a technology world apart from the common types of cheap, low-strength 'commodity plastics' used in toys, household articles and low-quality household appliances. Engineering plastics have a wide range of very good technical properties including the important ones of strength, light weight and ease of processing. So:

- engineering plastics can be as useful as steel; and
- they are generally easier, more versatile, to work with

5. Uses of Plastics in Cars:

The use of plastics in most production cars is steadily increasing. From a total number of the 15 000 or so separate components that make up a car, about 700 are now made out of plastic, reducing its weight from approximately 1200 kg to 1000 kg. This means that nearly 100 kg of plastic is used in an average car (plastic is slightly less than half the weight of an equivalent steel section producing the same strength). Of this, about 75 kg is used for dashboard facia interior, trim and under-bonnet components, rather than load-bearing structural bodyshell parts. The figure varies between models and manufacturers but 75 kg (or 75 per cent of the total usage) is a good average figure. Structural bodyshell panels present the biggest technical challenge to the use of plastics from a design viewpoint. Perhaps for this reason, two separate methods of use have developed.

- True monocoque panels: Here, the plastic bodyshell panels alone replace the use of steel. They take the full structural and imposed loads, without any subframe reinforcement.
- Subframe supported: This is a compromise solution- a metal subframe is used, supporting either the full structure of the car, or sometimes only at the front end, extending forward from the door shut-post. It is more common in two-door vehicle designs. The subframe is used to support the plastic panels, which are bonded (rather than bolted) to it, hence they are only partially load-bearing. The subframe also increases rigidity and impact resistance. This second method is a very different approach to the full structural use of plastic bodyshell panels — there is also less of an advantage in weight saving, unless the subframe is made out of a lighter material such as aluminum. Before taking a more detailed look at specific plastic components it is worth thinking once again about the implications for production. Mass-produced car manufacture suffers from the problem that plastic parts, whether injection, blow or compression- molded, take longer to produce than conventional stamped steel panels. A typical bodyshell consists of 25—30 separate panels and although this can be reduced by about half for plastic components (because moulded plastic shapes can more complex) the total production time is still longer. This is a pivotal commercial consideration, equally as important as the issue of mechanical properties. The typical use of plastic materials in a modern mass-produced car. Some further details and the main reasons for the choice of material are given below.

Thermoplastics polymer can be produced in various shapes and designs as per the requirement of electric vehicles due to the high versatility and easy moldability of plastics. The use of plastics for electric vehicles reduces the weight of these vehicles, which provides a greater range between recharges. Plastics offer excellent heat resistance that

enables the construction of battery compartments and cooling systems and do not hamper the durability and safety provided by electric vehicles. The injection-molded plastics are less costly than metal components, which attracts the attention of the manufactures of electric vehicles. Automobile manufacturing is shifting toward generating less emissions of greenhouse gases and becoming fuel-efficient with the growing emphasis on environmental sustainability. Cost-effectiveness; environment sustainability; convenience; adoption of advanced technology; and various government policies such as preferential rates, incentives toward equipment purchase, and significant rebates are among the factors propelling the demand for electric vehicles across the world.

The rising demand for electric vehicles propels the growth of other industries such as plastics, as it is one of the preferred materials used in the manufacturing of these vehicles. Plastic is alternatively used in place of metals for cooling pipes and fans, and other automotive components - such as energy recovery devices, casing materials, and others.

The stringent emission norms and regulations implemented by governments are also motivating the manufacturers to minimize the weight of passenger cars and look for environment-friendly automotive options. Further, the advancement of technologies such as hybrid, plug-in-hybrid, and battery electric vehicles would offer lucrative opportunities for the plastics for the electric vehicle market during the forecast period. All such factors are anticipated to drive the growth of the global electric vehicles plastic market.

6. Advances in use of plastic in vehicles

Demand will increase for plastics used to make connectors and housings for the many electrical and electronic components required for both electric and autonomous vehicles. The use of plastics for parts unique to internal combustion engines, such as fuel lines and air intake manifolds, will gradually decline.

Plastics makers see opportunity in the auto industry's evolution. The changes will place a premium on high-end materials that can withstand the extreme heat and electrical conditions in electric and autonomous vehicles. The automotive industry needs partners that can help them navigate all of this change. This will mean exploiting existing materials but also, where necessary, developing new materials.