Timestamp	Name	Branch	GV Panel	Time Duration of GV	Question Asked	Suggestion/Tips for preparation
3/9/2018 15:35:33		ME 4yr	B Maiti, S Roy, Atul Jain,S K Pal	10-15 mins	1.Lumped system. 2. How to find h 3. what is biot number. what is the difference between reyliegh and grassof number 4. Draw stress strain curve with both true stress and engineering stress. 4. what is the difference between forward and backward extrusion.	Prepare according to panel and enjoy.
3/9/2018 16:21:29		ME 4yr	Panel 6: SNB, PPB, MCRay, JJChak	15 mins	SNB: Difference between OpenMP and MPI (since HP3 was my elective) JJC: Streamline function relation for Bernoulli equation to be applicable. MCR: Difference between Bending and Torsion (answer was something related to line of action) PPB: Different milling operations, cutting tools, index hardening(or something) etc.... (none of which I could answer :p)	They'll ask you very basic questions during your Viva. No need to do an in-depth study (not applicable for maggus). They asked my electives and favourite subject and questions related to it. For PPB and MCR, read their notes.
3/9/2018 16:26:38		ME 4yr	Ghosh-Moulick, AK nath, Lakkaraju, ...	15sec	What is your CG?	Be confident, they are just some dumb professors!
3/9/2018 18:31:47		ME 4yr	S Roy, B Maiti, SK Pal, AB	20 mins	At first, Sroy and AB were present. B Maiti joined after 3 mins followed by SK Pal SR: Are you placed, what are your future plans? AB: Any fav subject (I said welding, MTM, RAC) SR: Tell me about the heat transfer taking place during welding AB: Follow up questions regarding the temp profile, heat conduction/ convection, and radiation. <BM enters> BM: Some random question about viscosity and temp/pressure profiles <SK pal enters> SKP: You must have been taught forming (I said, I'm not confident, so he started with MTM) SKP: What is the use of rake angles, the projection of tool in different planes, use of the negative and positive rake BM: Again some random questions on a box filled with viscous liquid and heat transfer AB: Equations of conduction and convection. Then he mixed up with BM, which was an absolute bouncer. I skipped saying I don't know the answer. BM: Shear force and bending moment diagrams for the cantilever beam. Some random question on 2 force member. <<some random questions were asked in between which I can't recall, rest everything was based on concepts.>>	1 Dress in formals, look good (oil and comb your hairs, iron your shirt etc.) (It matters for our old profs) 2 Do not panic too much, they'll help you reach the final answer if you get stuck 3 Ask questions/make assumptions while answering random bouncer questions 4 Don't be afraid to stick to your answer, they'll try to confuse you by saying 'are you sure', '<random smiles, chuckles>' etc. Keep up your confidence 5 Play along with the profs, after all, it's their day and they make sure they have a good time grilling you. Do not lose patience or argue with them. 6 Take proper sleep the night before. As most of the questions will be application based, it's good to have an active brain to apply the concepts that you've learned already during lectures In the end, it will be a great experience, my panel was a balanced one. PS: God save you if you get ARM or A Guha. All the best!
3/9/2018 21:35:07		ME 4yr	Atul Jain, B.Maiti, S.Roy	10 mins	What is shear centre? Deflection in a simply supported beam is more than required, what changes will you make to reduce the deformation? Can you apply Bernoulli's to a pipe flow with a pump? No you can't but you can use modified equation with losses term added Write the modified equation.	If you are the last person then chill out the panel would already be frustrated and not harass you! :P

3/9/2018 21:44:53		ME 4yr	Atul Jain, B. Maiti, S.K. Pal, S. Roy, Anandroop Bhattcharya(absent)	12 min.	My panel was relatively chill. First they asked me about specialization I preferred out of thermal, manufacturing and design. Then asked me about each specialization one by one starting from my choice. 1. Thermal: what is bernoulli's equation how is it different from thermodynamic energy conservation equation, what are different forms of energy in bernoulli's equation. Assumptions taken in it. Working principle of pitot tube. If fluid is going through a pipe and the pipe is being heated, how does the Bernoulli's equation change. 2. Design: What is the shape of railway track. How does that shape(i shape) help. what is the importance of moment of area in designing. what is the product of E and I called. why should we decrease the value of rigidity? 3. Manufacturing: what is solidification time. what is it's empirical formula. in what case a sphere and cylinder can have same solidification time?	2-3 days of preparation should be enough. Try to cover atleast 1 subject of each specialization thoroughly.
3/9/2018 22:16:09		ME 4yr	Chair: A. K. Mohanty, A Guha, V Racherla, S Mitra, R Maiti, K bhattacharya	15-20 minutes	1. How to find a diameter of the rod with which the fan is hung? 2. Draw Stress strain curve for a ductile material and tell the percentage elongations as well. 3. Draw stress strain curve for an ideal elastic plastic material. 4. Tell how a iron disc is manufactured from iron ore. 5. For a long wall whose one side is insulated and one side is given constant flux, whether steady state will be maintained or not. 6. Define steady state. 7. Last one was fantastic: Frame a question and answer it from your favorite subject in mechanical engineering as I was not able to answer question up to their expectation. For this part, I talked about rake angle and stuff.	When Abhijit Guha is in your panel, whatever you may study, just sit tight and enjoy it because it won't be a easy ride. Also, don't expect them to make conventional question because if they go wayward, then god save you. Also, don't go with certainty that if you have given effort, it will be fruitful as if they try they can fuck up any moment.
3/10/2018 0:26:47		ME 4yr	B. maiti, Sk pal, Atul jain, Sanjay gupta	5 min	draw mohr circle for uniaxial tension and pure torsion, design criteria of fly wheel, why carnot cycle is not practical, difference between nusset no. and biot no., bernoulli application, basic modes of heat transfer.	aise hi chale ja
3/10/2018 10:43:20		ME 4yr	MC RAY , PPB, 2 more prof	20	they ask me bout my favourite sub and electives what is the effect of velocity field in energy equation(heat transfer)? what is prandtl number write in the form of kinematic viscosity and its significance? what are two type of boundary layer and on which number it depends(ans - prandtl no.)? some que on elective in my case on FEM , like how do we know k matrix is correct? ppb - why we use cutting fluids . what are the forces occured in machining operations?	find your panel some how and prepare the topic accordingly.

3/10/2018 12:41:56		ME 4yr	Abhijit Guha, Kingshook, Vikrant Racherla, Amiya Ranjan Mohanty	10-15 minutes	Guha: What is a combustion turbine?(Gas Turbine) Guha: Where can you see it?(Power Plant, Bratton Cycle) Guha & Vikrant Racherla: Where can you see it regularly? (Air planes) Guha: What are the differences in the turbines used in Power plant and planes? Racherla: What are their specific functions? Me: Answered these correctly to some extent. (Guha left and did not come back, thank god :-)) Racherla: Which are the subjects you prepared? Me: Heat Transfer Racherla: Only that. Tell some more. Me: Thermo & Fluid Mechanics. (This was one of the worst panels. Thereafter they did not ask me any questions from these topics. Now it was time for Kingshook to start his OP.) Kingshook: What is the difference between bar, beam and column?(No idea) Kingshook: How do they construct a column? How do you identify stress in a cantilever beam using (never heard of it) method? In which subject you may have studied this? who was the teacher?(ARM and Kingshook used to pass snide remarks) Sankha Deb: Explain any manufacturing process? In this lab can you show me an example? Some more random questions and then THANK YOU.	Either study all the topics or don't take load. You answer from your 4 years experience. Our panel was a tough one(except Racherla, the only one who helps).You are doomed if you get Guha or KB or ARM and apocalypse if together. They humiliated each and every one. Those 10-15 minutes are what professors want to enjoy with you. You should also enjoy these moments.(They will never ever come back) It will be peace. Try to act tensed, they may let you off early.
3/10/2018 17:16:49		ME 4yr	Anandroop, SKpal. Sroy, Bmaiti	25-30 min	Asked my Future plans and my BTP.(It was on vibrations.) Was asked why does a new machine also produces vibration? 1. Why is the top layer of a roti or puri thinner than bottom layer. 2. Why do we have mosquitoes on top of our head in winter.(Natural convection bloom on top of our heads) 3. Why spread atta on pan before heating a roti. (Lesser conduction to avoid burning) 4. Terminal velocity of water drop.	Ask your BTP prof what the panel is. Then accordingly prepare 2-3 subjects only, thoroughly . Preferably fluids/thermal, cuz everyone prof knows something about it. Most application questions cant be prepared beforehand, most u can do is ask ur batchmates what their questions are when they come out. Theoritical questions in thermal/design are a lot easier and less riskier than application questions in Manufacturing. Also carry a pen, smile a lot and satisfy that 60 year olds ego for your benefit. Our seniors told us grades are generally A/B/C, so chill out, 2 credits wont make a difference to ur CG-thats already based on 180 credits so far. :)
3/11/2018 0:19:51		ME 4yr	MC Ray, PPB, SN Bhattacharya, JJ	30 mins	1.Euler beam theory 2.Why is it important to study internal deformation of a body and not just external stresses 3.Is Rolling a plane stress or plane strain process? Prove it. 4. Explain hydrostatic component of stress	Ideal scenario: You find out the panel and prepare according to those subjects If not: cover 1 thermal/fluid subject, and 1 from CFW/MTM

3/12/2018 12:56:55		ME 4yr	1. MC Ray 2. PPB 3. SNB 4. Jeevanjyoti Chak	15 mins	*started by asking about my electives, I listed them as 1. Foundations of Entrepreneurship 2. Market and Market Research 3. Deformation Behav. of Matrls 4. Robots CCM 5. Convective Heat and Mass Tx; and told them my favorite sub was Fluid Mech* _____Q's asked: 1.> Jeevan Sir drew a Wedge placed in a fluid flow, and asked what other cause can be there of the horizontal motion of the wedge apart from fluid's thrust. 2.> MC Ray asked about Torsion, went into deep about twisting and force and torques 3.> PPB asked about i. Lathe M/c's longitudinal feed motion and how its controlled (lead screw + feed rod) and the difference btwn the two; ii. Apron of a Lathe 4.> SNB asked about Boundary layer and its many properties and dependencies	i.) Asking for a minute or so to think before answering is a good strategy; ii.) having a cheerful expression (even amidst a horrible viva) is advisable; iii.) salutations to ALL profs before and after (Good morning, thank you etc) iv.) carrying your own pen, caring about personal hygiene (beard, hair, ironed shirt) are all noticed; v.) asking to re-attempt any wrongly attempted question might show one in a +ve light- someone who is trying to attempt and correct one's wrongs (only if one feels confident of trying); vi.) knowing about the panel beforehand, and making a list of topics and questions being asked previously and during that day (if your roll no. is towards the middle/end); vii.) Having a good 5-6 hrs sleep and food before the viva (trivial, but very important)
3/12/2018 18:12:36		ME 4yr	mera papa MC RAY	0 min	0 ..haha.. its MC Ray bro..dont you know	CHAT Le .. literally
3/16/2018 12:12:18		ME 4yr	MKD, Ajay M Sidapara, Jinu Paul, Kalelkar, R. Maiti	15min	Sidapara: How do you measure the eccentricity in the work piece of lathe? MKD: There is a metallic sphere at a higher temperature w.r.t surroundings (consider convection only). When do you neglect the spatial temperature variations inside the sphere? Couple of more questions which delved inside the topic of lumped mass system. Write down the governing equation for this problem and solve it. Prof..: There are two plates, one thick and other thin. Both of them are kept under a temperature difference (T1>T2). Which one of the plates will reach the steady state faster? Why and What is the physical interpretation of the answer? Jinu Paul, kalelkar- no questions R Maiti: Gave a figure of a symmetrically loaded simply supported beam (supported in-between, the joints are inside a length l from the ends of the beam).Draw shear force and bending moment diagram. Since there are no shear and moment reaction forces at the centre of the beam, what happens if we cut the beam.	Brush your concepts. Try to aim at covering the fundamental concepts while preparing.The questions in viva will be the application of these concepts. At the end, your fate might depend on the kind of panel you get. cross your fingers and hope for the best!
3/17/2018 1:06:37		Dual ME	nhi batauga	1 saal majdoori	baccho ke khilone kase banaoge	majdoori kro bs
3/17/2018 9:20:34		ME 4yr	A R Mohanty, Sankha deb, Kingshook B, Abhijeet Guha, V Rachela,	20 min	1.What is the volume of this room(panel room)? 2.How will you manufacture a shaft? 3.What are the sources and sinks of heat in this room? 4.How will you design a shaft? 5.What are the critical loads on a shaft? 6.How will you control flow rate in a refinery? 7.Name any one manufacturing process. 8.Force and velocity in turning operation. 9.Consequences of rake angles. 10.why clearance angle used.? Name different parameters in cutting tool.	Don't Panic, stay cool and answer justifiably.
3/17/2018 13:51:49		ME 4yr	Manab das,DK maiti, Jinu paul, Sidpara	15mins	1) Non dimensional analysis for height of liquid column H for a tube immersed in a liquid. 2) Constants required to determine the stress a point (Poisson ratio, Shear modulus, youngs modulus) 3) Solid state welding technique and examples. 4) What happens to a wire if it is stretched by pulling both ends.	Peace. Don't panic, keep your nerves calm, dont panic. dont answer randomly, take your time to think and give answers. Just revise the basics throughly