	Toracos yapla	
	Batch 2	
	20211214	Dt
	Rail Jun	differentiating equation & witt
	0	1 do - Rd - B1 dv = 0
	Concepts and disumptions	differentiating equation (3) with the light of the light
6	loxente porce Fm = IlB (on the)	from eg@ and eg@
	) root)	-j - Rdi - il²R² -o  c dt m
0	lenz's lan	C dt m
3	Faraday's law	$ \begin{cases} R di = -i \left( \frac{R^2 L^2}{MR} + 1 \right) \\ dt $
Ŷ	Motional EMF for a rod in	dt mr Ry
	1 field e= 12BL	$d\hat{i} = -\hat{i}d$
	V 3 velocity	$\frac{d\hat{u} = -\hat{u}}{\rho t}$
	Na RMagnette field	$\int_{\mathcal{C}} d\mathbf{r} = -A(\mathbf{r})$
A A	en PD across rad.	
(5)		entity) = + At
6	Kirchaff's law $A = \begin{pmatrix} B42 & 1 \\ MR & RC \end{pmatrix}$	
ini	Hal setup	lni 2 -dt
	· · · · · · · · · · · · · · · · · · ·	
+CVo	® B	i = i.e-At —(4)
C	T (Ø	% = 16e ₹ -8
-CV0		Force as a function of time.
		Fm = 8LB
in:	resmediate time t	For = from eg (9)
18		Fm= Voe -AK LB
<u> -</u>	e k I v	= VOIR e-At -6
	Fm	<i>r</i> .
<u>us</u>	vent as a function of fine.	
	l = -dq $olf$	Velocity as a function of time
	Fm = mdv = ilB - 2	Velocity as a function of time - from eg @ : mav = P.L.R
-		at-
-	By kirchoff's law  9-9R-VBL=0 3	put i from eg@ in eg@
	1 1 - 7R - VBL = 0 - (3)	mdv = ise-at-le
		Or

iols /e-At-dt bolk (e-1) COLR (1-E putting the value of of 9n 1 - (B<sup>L</sup>(2 1 ) Wo e R -(B-12-(1-e) RM (1842+M) V = VOLBC ell-e (mk RC) (CB (2+m)