p r c s r t g t s r dr g s st m s d t r m rg tr s r t r g m t r s.
t c c d s w t st d ts w r g t m st s d s g pr b m t t c s s rg d p w r.
w s t w dg d d r st d g b tt r g t pr s r g ts t cr t s t t
t pr b m. lt s mp rt t f st d ts t d r st d t cc pt b s t s t t ts t cr t r d
c str ts t d s g br .

Energy and Power Lesson Summary

L ss 1.1 M c s ms
L ss 1.2 E rg B rc s
L ss 1.3 E rg App c t s
L ss 1.4 D s g Pr b m E rg d P w r

Lesson 1.1 Mechanisms

r g t t s c rs st d ts w pp rt t t r b t s m t m r g r g d
g r g tc g ds b t t m. l t s t st d ts w t r w pr ss t r m r
b t t t d d s c r r p t d r s t r c rr t p s t . t r w w b t rst p rt
c rs g c r r f p rt.

M c s ms r t b s c c mp ts m st m c s d c s st g rs, spr c ts, p s st ms, d
s mp m c s. d m c s ms c b d r d r m t b s c c mp ts b c c t t
g -tc q p m t s d t m d c d str . E g rs d sc t sts s m c s ms st m p t sp d,
d st c, rc, d ct t m t w d r g d s g d pp c t r q r m ts. D t t w d r g
pp c t s g m c s ms, t s mp rt t t d s g rs d d- s rs d rst d t c r ct r st cs,
pp c t s, d m t t s m c s ms.

l L ss 1.1 M c s ms, st d ts w g d rst d g m c s ms t r g t pp c t t t r -
b s d c c t s cc mp d b b p r m t t .

Lesson 1.2 Energy Sources

c g c s st ms w d t b p ss b w t t rg , w r , d p w r. A t g t s c mm t r
t s t r ms s d t rc g b c rs t , c s d r t d cr c t cr t g, s g, r m t g
t c g c s st m.

M st p w r d t d s st r d r m d b w d d. l t p st p w r t t w cr t d w s t
d m m d t . A w d m m g t b d t p mp w t r r rr g t d. A w t r w ’ r t r t m t
m g t b d g t gr d gr s t fl r. s s st ms d d t c s st m st ps r pr c ss s
b tw t rg s rc d ts d s. d ’ s c t d m ds t t rg b st r d d tr sp rt d
r b d pr d ct b t t d s r. rg d p w r c g r m s m t s st g t w
t f ct . E g rs r b g c g d t d cr t w s t g r t rg d m st ms m
c t.

Lesson 1.3 Energy Applications

d ’s c s m r d m ds ct rg m g m t. C s m rs r c t d cc ss b rg t

D str ct t st g s d d s pr c ss w r t r s b ct d t d m rt t w t m t r c s t m t r t . M c s b d p d sp c c t c d ct d str ct t st g. s m c s ft c t s m p d r c rd r m t s c r s t g d r m t , t m t str ss t t b d s p s d t s m p , st c b , str g t , tc.

-d str ct t st g sp r r m d m t r , t p rt s t p r m t ct d b t t st. p rt s st s r c b. p rp s d str ct t st g s t d t r m w t r t m t r c t s m p r ct s.

O r m r s, t sts b d p d r m s r g t c mm pr p rt s g r g m t r s, c d g c st c , ctr c , m g tc, p c , pt c , d t r m pr p rt s. B t w s m t r t st g s, s g c t?

Lesson 2.4 Design Problem – Materials and Structures

St d ts b p s d t t d r t t p s d pr p rt s m t r s pr s ss s. s t st d d b m d w r t mp rt c c s g t r g t m t r r g rd s t s t d r m t mp cts. St d ts w w pp w t t r d t d s g pr b m s g t d s g pr c ss s t r g d.

Pr b ms s st r w r , d t r t r d gr s c mp t d mp rt c. R g rd ss w pr b ms r d t d r r m w r t c m , g r s s t d s g pr c ss t cr t d c t s pr b ms.

Pr b ms r m st t s d b g r g t ms. s t ms w r t g t r, c st t c mm c t g w t c t r, t cr t t d s r d pr d ct. t m m r c pr b m r w c t r p ct d t cr t s t w t r w c str ts, w t w s t m t b q t cr t .

I t s ss st d ts w w r t m st s m t r s d s g pr b m. w s t w dg d d r st d g s d p d t r g t t t s t pr b m. lt s mp rt t r st d ts t d r st d t t cc pt b s t s t t ts t c str ts d sp c c t s t d s g br .

Unit 3: Control Systems

g U t 3 s r st d ts t r c g t b d c d t r t c mp t r s r d s.

St d ts r t c tr m c c s st ms b r c g g c mp t r tp ts d g g d r st d g w t wr t c d t c tr t m. dd t p r m t w t r s p t d c s d r w t c d pt c mp t r c d t c tr c mp t r tp ts.

rc s c s g t m t .

I t s ss st d ts w cr t c t r mp rt t sp cts m t d r . St d ts w s pr b m t t w p t m t d rst d t m t cs c cpts d pr ct m t .