



Ka project kaba hap hapoh ka Jing peit Jong ka PM-DevINE - Digital Design bad ka 3D Printing Center of Excellence in the Electronic Manufacturing Cluster (EMC) ha ryngkat ka Jing iatreilang bad ki ophis kiba hap ha ka tnad Sorkar.

Shaphang ka Industry 4.0(ka jaka hikai kaba saw) bad ka 3D Printing(jingshna ne dro dur)



Ka Industry 4.0 lane ka jinghikai kaba saw Kan pyn kylla ia ka rukom pyniadei ne ia kren,ka rukom trei kam ha ka im Lang sah lang bad kata ka jingstad saian ka dei ka 3D Printing lane kaba ki ju ong ka Jing shon ne shna dur kaba lah ban iohi ne ithuh Kam bha. Kane ka rukom shna dur ka wanrah ia ka lad ban pynmih shibun ki dur ban pyni nuksa, ki dur kiba lah dro ha ki kompiwtor ha ki dur bapher bapher bad ha bun jait ki jingheh. Ynda lah dep ban dro ia ki dur,un sa lah pat ban shna ia ki ha ka dur kaba um lah ban shna da ki tiar ne ki rukom shna tynrai. Kine ki rukom dro bad shna ki lah ban pyndonkam ha bun tylli ki lad ha kaba iadei bad ka koit ka khiah, ka rukom pynkhiah ia kano kano ka Jingduna dkhot met ,ka umphniang bad ka gas, ka rukom suh ia ki jain bad ki tiar ba pyndonkam ia ki, u Drone(ka liengsuin kaba rit ha kaba ki pynher shalor ban ring dur), ki karkhana ba Shna liengsuin barit bad baeh bad kumta ter ter.

Ki phangpdeng kiba hap hapoh ka Workshop(jinghikai) shaphang ka 3D Printing (Jing shon ne Shna dur)

Ka jingbatai shaphang ka 3D Printing(Jing shon ne shna dur)

Ka Jing kylla ha ka SDG 2030 na ka bynta ki jylla kiba hap ka north east.

Ki Kam kiba lah dep kiba don jingmyntoi ha ka im lang sah lang

Ki jingtei kiba lah dep tei ha ki jylla kiba hap hapoh ka north east / ki kam kiba lah dep buh be thaw lypa hapoh ka projek ki ban wanlam jingmyntoi ia ki ban don kti Lang.

Ki Kam kiba lah pyniaid ne khaii ha 3D Printing(Jing shon ne shna dur)



Na ka bynta ban Registrar, sngewbha leit ha kane ka website.

www.3dpcoe.in



Ki mat kiba hap hapoh ka **3D printing technology** (jingshon ne dro dur)



3D CAD Model



. STL file



Layer Slice & Tool Path



3D Printer



3D Object

Ki kor shna ne dro dur kiba lah kham bna

Nombor	Ki kor shna dur	Jingbatai
1	Fused Deposition Modelling (FDM)	Ki FDM printer ki pyn Wan dur ia ki tiar da kaba syrtap najrong ia ki plastic kiba lah pyn um.
2	Stereolithography (SLA)	Ki SLA ki pyn donkam da ka UV laser ban pyn um bad ban tei ia ki plastic resin man ka syrtap khngan ban ioh ki jingshna kiba ryntih.
3	Digital Light Process (DLP)	Kane ka syriem bad ki SLA hynrei ki leh da u Digital Projector ban pyn um ia ka resin ba d la pyndonkam ha ki application ba dei bad ka lain Engineering.
4	Polyjet	Ki Polyjet printers ki pyn mih shibun ki syrtap Jong ki photopolymer resin. Ki lah ruh ban pyn mih shibun ki wrong bad ki mar.
5	Selective Laser Sintering (SLS)	Ka SLS kapyn mih ki marbalong powder (kum ka nylon ne ki kynja polymers) da kaba Leh da ka laser. La ju Leh ha kaba shna u socket ha ki case ba Leh amputation ne pyndait ia ki met.
6	Electron Beam Melting (EBM)	Ka Electron Beam Melting (EBM) ka dei ka kor ha kaba ka nar kaba lah pyn long powder.
7	Direct Metal Laser Sintering (DMLS)	Direct metal printing (DMP) lane ka DMLS la pyndonkam ban shna ki nar kiba bha ban lah ban buh ha ka met u briew na ki 3D CAD data da kaba Sintering (shu pyn um bad shna dur biang ia ki nar kiba lah pyn kylla powder).
8	Binder Jetting	Bun syrtap ki nar powder la jied kyrpang ban syrdap da kaba pyndonkam da ka liquid binder.

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Ki case kiba lah ju pyndonkam

1	Ki jingduna /jaka sumar/jingpynkoiy ha India	<ul style="list-style-type: none"> • Prosthesis—ki lah ban dei ki dkhot met ba kaikai ban pyndait ha met u briew • Orthosis—Braces na ka bynta u budlum • Cranial Helmets—ki helmet na ka bynta ki khynnah ne kino kino ki jingmynsaw • Hand Splints—na ka bynta ki khyllung kiba don Arthritis/ka jingsumar ia kito kiba lah ioh stroke teng
2	Ka Jing hikai shaphang ka sumar sukher/kakoit ka khiah	<ul style="list-style-type: none"> • Na ka Bynta ka jingsumar bniat • Ka rukom pyrkhath ban Leh surgery • Cancer—Brachytherapy, ka jingpynbeit ia ka dur khmat. • Ki class CME—Digital Content Na ka Bynta ki doktor.
3	Ki karkhana	<ul style="list-style-type: none"> • Ki umphniang and ka mairang ka North east • Drones • MSME ki kor bad ki tiar ba lah ban pyndomkam ha ki karkhana hit
4	Mar ki Mata Jong ki paitbah	<ul style="list-style-type: none"> • Ki budam Jain, ki jingdro ha ki tyrsim Jong ki kynthei(nail art) ki jingdro ha ki Jain, ki jingdeng Kai. • Ki design Jong ki juti

